

KP-46S55/53S55

RM-Y125

SERVICE MANUAL

US Model

KP-46S55

Chassis No. SCC-F19T-A

KP-53S55

Chassis No. SCC-F19U-A

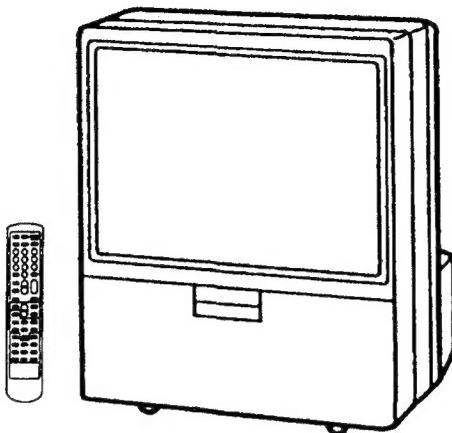
Canadian Model

KP-46S55

Chassis No. SCC-F23H-A

KP-53S55

Chassis No. SCC-F23J-A



AP CHASSIS

MODELS OF THE SAME SERIES	
KP-46S55/53S55	KP-46XBR25/53XBR25/61XBR28
KP-46V15/46V16	KP-46XBR35/53XBR35/61XBR38
KP-53V15/53V16/61V15	KP-41EXR96

SPECIFICATIONS

Projection system 3 picture tubes, 3 lenses, horizontal in-line system
Picture tube 7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and liquid cooling system
Projection lenses High performance, large-diameter hybrid lens F1.0
Screen size KP-46S55:
46 inches (measured diagonally)
KP-53S55:
53 inches (measured diagonally)
Screen brightness KP-46S55: 1,600 cd/m²
KP-53S55: 1,250 cd/m²
Television system American TV standards
Channel coverage VHF: 2-13
UHF: 14-69
CATV: 1-125
Antenna 75-ohm external antenna terminal for VHF/UHF

Inputs/output VIDEO IN 1
S VIDEO IN (4-pin mini DIN) :
Y : 1 Vp-p, 75-ohms unbalanced, sync negative
C : 0.286 Vp-p (Burst signal), 75-ohms
VIDEO (phono jack) :
1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks) :
500 mV rms (100% modulation)
Impedance : 47 kilo-ohms
VIDEO IN 2 and 3
VIDEO (phono jacks) :
1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks) :
500 mV rms (100% modulation)
Impedance : 47 kilo-ohms
AUDIO OUT (phono jacks) :
900 mV rms (100% modulation)
Impedance : 5 kilo-ohms

- Continued on next page -



996498001



COLOR REAR VIDEO PROJECTOR
SONY®

Speaker	Full range speaker 160 mm (6.3 inches) diameter	Mass	KP-46S55 : 90 kg (198 lbs 7 oz) KP-53S55 : 92 kg (202 lbs 7 oz)
Speaker output	10W×2	Supplied accessories	Remote commander RM-Y125 (1)
Power requirements	120 V, 60Hz		Size AA (R6) battery (1)
Power consumption	Max. 310 W Average : 255 W Standby mode : 7 W	Optional accessories	U/V mixer EAC-66 Connecting cables RK-74A, VMC-810S/ 820S, YC-15V/30V, VMC-720M VCR tray SU-PJT1
Dimensions (W/H/D)	KP-46S55 : 1,029×1,287×535 mm (405/8×503/4×211/8 inches) KP-53S55 : 1,164×1,336×644 mm (457/8×525/8×253/8 inches)		Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.

LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTE.

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

1. Check the area of your repair for unsoldered or poorly-soldered connections Check the entire board surface for solder splashes and bridges.
- 2 Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors
- 3 Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced Be absolutely certain that you have replaced all the insulators
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement
8. Check the B+ and HV to see they are at the values specified Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes) Leakage current can be measured by any one of three methods

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2 A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job
- 3 Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable Nearly all battery operated digital multimeters that have a 2V AC range are suitable (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground, the cover-plate retaining screw on most AC outlet boxes is also at earth ground If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential (See Fig. B)

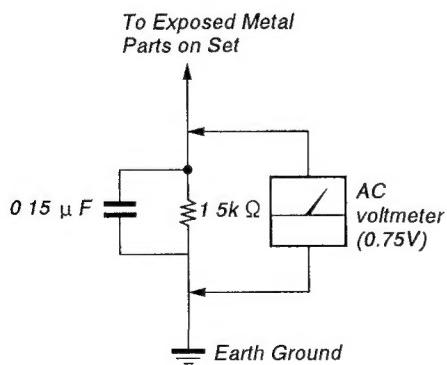


Fig. A Using an AC voltmeter to check AC leakage.

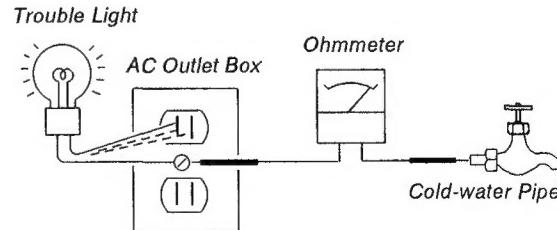


Fig. B. Checking for earth ground.

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SECTION 1 GENERAL

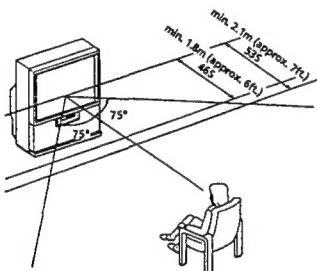
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

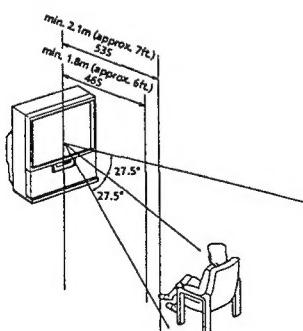
Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)



Optimum viewing area (Vertical)

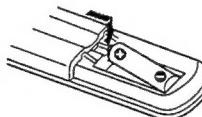


Preparing for your projection TV

Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Adjusting convergence (CONVERGENCE)" on page 10.

Step 3: Setting up the remote commander

Insert one size AA (R6) battery (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.

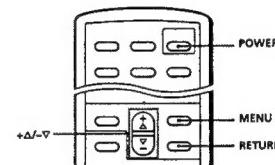


Notes

- With normal use, the battery should last for approximately six months.
- If you do not use the remote commander for an extended period of time, remove the battery to avoid possible damage from battery leakage.
- Do not handle the remote commander roughly. Do not drop it, step on it or let it get wet.
- Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

Step 4: Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.



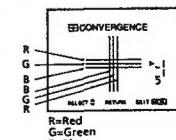
- Press POWER to turn on the projection TV. The TIMER/STAND BY indicator flashes until the picture appears.



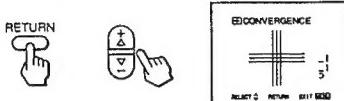
- Press MENU. The main menu appears.



- Press + Δ or - ▽ to move the cursor (>) to CONVERGENCE and press RETURN. The CONVERGENCE adjustment screen appears.

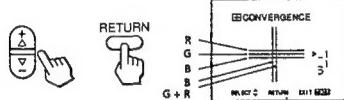


- 4** Press + Δ or - ▽ to move the cursor (►) to the symbol showing the line you want to adjust, and press RETURN.



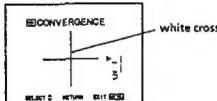
- ! Red vertical line (left/right adjustment)
- Red horizontal line (up/down adjustment)
- ! Blue vertical line (left/right adjustment)
- Blue horizontal line (up/down adjustment)

- 5** Press + Δ or - ▽ to move the line until it converges with the center green line, and press RETURN.



To move up/right, press + Δ.
To move down/left, press - ▽.

- 6** Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.



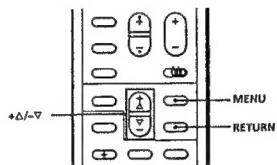
- 7** Press MENU to return to the original screen.



Note
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Step 5: Setting cable TV on or off

If you have connected the projection TV to a cable TV system, you should set the cable connection on or off. Set CABLE to ON, the factory setting, to preset or watch cable TV channels. Set to OFF to preset or watch VHF/UHF channels.



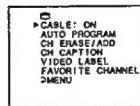
- 1** Press MENU.

The main menu appears.



- 2** Press + Δ or - ▽ to move the cursor (►) to SET UP and press RETURN.

The SET UP menu appears.



- 3** Set CABLE to ON or OFF:

- (1) Make sure the cursor (►) is beside CABLE and press RETURN.

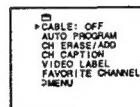
If the cursor is not beside CABLE, press + Δ or - ▽ to move the cursor and press RETURN.



- (2) Press + Δ or - ▽ to select ON or OFF.



- (3) Press RETURN.

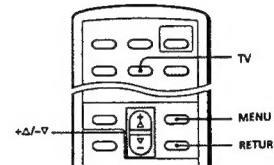


- 4** Press MENU to return to the original screen.



Step 6: Presetting channels

You can preset TV channels easily: first store all the receivable VHF, UHF or cable TV channels automatically following the procedure below, then erase unnecessary channels or add the channels you want.



Presetting all the receivable channels

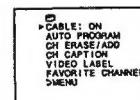
Before you begin, set the cable TV on or off according to the channels you want to preset. (page 11)

- 1** Press MENU.

The main menu appears.



- 2** Press + Δ or - ▽ to move the cursor (►) to SET UP and press RETURN.



- 3** Press + Δ or - ∇ to move the cursor (>) to AUTO PROGRAM and press RETURN.



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

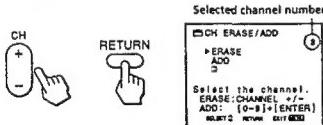
- Notes**
- If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV on the remote commander so that a channel number appears.
 - If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Erasing or adding channels

- 1** Press MENU.
- 2** Press + Δ or - ∇ to select SET UP and press RETURN.
- 3** Press + Δ or - ∇ to select CH ERASE/ADD and press RETURN.

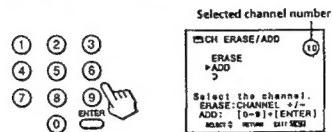
4 Erase and/or add the channel you want:

- To erase an unwanted channel
- Make sure the cursor (>) is beside ERASE.
 - Press CH + or - to select the channel you want to erase.



- (3) Press RETURN.
The indication “-” appears beside the channel number, showing that the channel is erased from the preset memory.

- To add a channel that you want**
- Press + Δ or - ∇ to select ADD.
 - Press 0 - 9 button to select the channel you want to add and press ENTER.



- (3) Press RETURN.
The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.

- 5** To erase and/or add other channels, repeat step 4.

6 When you finish, press MENU.

Note

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.

Changing the menu language

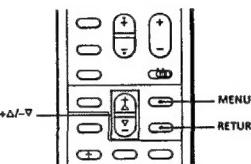
- 4** Press MENU to return to the original screen.



Note

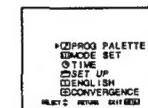
- Even when you select Spanish or French language, certain parts of the menus remain in English.

If you prefer Spanish or French to English, you can change the menu language.

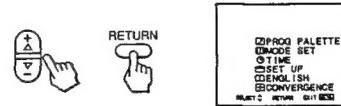


- 1** Press MENU.

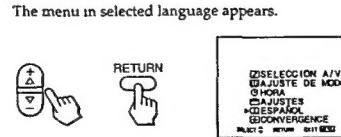
The main menu appears.



- 2** Press + Δ or - ∇ to move the cursor (>) to ENGLISH and press RETURN.

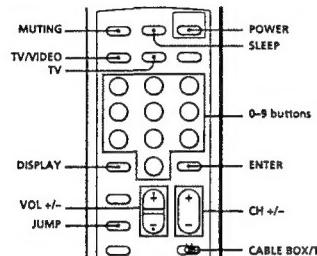


- 3** Press + Δ or - ∇ to select the language and press RETURN.



Watching TV programs

Check that the CABLE BOX/TV selector is set to TV.



- 1 Press POWER to turn on the projection TV.**
The TIMER/STAND BY indicator flashes until the picture appears.

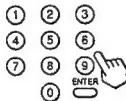


If "VIDEO" appears on the screen, press TV so that a channel number appears.

- 2 Select the channel you want to watch:**

To select a channel directly

Press the 0 ~ 9 buttons and then press ENTER.
For example, to select channel 10, press 1, 0 and ENTER.

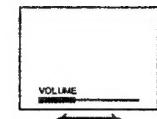


To scan through channels

Press CH +/- until the channel you want to watch appears.



- 3 Press VOL +/- to adjust the volume.**



Switching quickly between two channels

Press JUMP.

The channel you watched previously appears.



Pressing JUMP again switches back the channel.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Use this feature to check the channel number, current time, channel caption (if set), and MTS mode (if SAP is selected).

Press DISPLAY.



To cancel the display, press DISPLAY again.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (in minutes) you want appears.

Each time you press SLEEP, the time changes as follows: 30 → 60 → 90 → OFF.



"SLEEP" appears about one minute before the projection TV shuts off.

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

Watching a video input picture

Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows: TV → VIDEO 1 → VIDEO 2 → VIDEO 3.



To return to TV picture, press TV.

Previewing the menu displays

Press DEMO on the front of the projection TV.
Menus are displayed one by one.

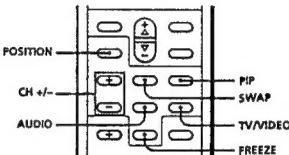


To cancel Demo function, press any button.

Watching two programs at one time — PIP

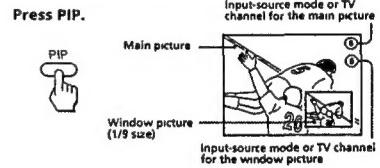
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.

You can watch two TV channels at one time by connecting a VCR. See "Connecting an antenna/cable TV system with a VCR" (page 7) for connections.

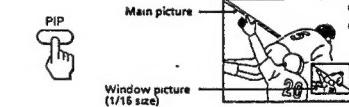


Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture.



Each time you press PIP, the size of the window picture changes as follows: 1/9 size → 1/16 size → OFF.

To remove the window picture, press PIP repeatedly until the window picture disappears.

Notes

- If the main picture is not receiving an image, the window picture may be in black and white.
- The window picture sound is also output from the AUDIO OUT jacks when you listen to it.

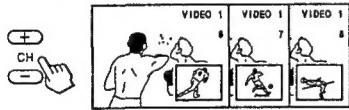
Changing the window picture input mode

Press TV/VIDEO in the PIP control area of the remote commander to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



Changing TV channels in the window picture

Press CH +/− in the PIP control area.



Listening to the sound of the window picture

Press AUDIO.

"A" appears for a few seconds, indicating that the window picture sound is being received.

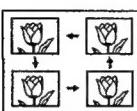


To restore the main picture sound, press AUDIO again.

Changing the position of the window picture

Press POSITION.

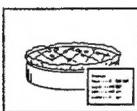
Each time you press POSITION, the window picture will move as illustrated.



Freezing the window picture

This feature is useful when you want to write down a recipe from a cooking program, a displayed address or a phone number and so on.

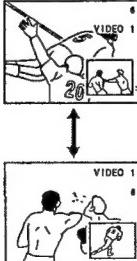
Press FREEZE.



Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

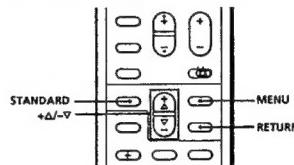


Selecting picture and sound effects (PROGRAM PALETTE)

Effect of four items

Item	Picture effect	Sound effect
STANDARD	Standard (factory preset levels)	Standard (factory preset levels)
MOVIE	Finely detailed picture	Theatrical audio effect
SPORTS	Vivid, bright picture	Sound with a sports stadium effect
NEWS	Reduced noise in picture	Clear voice reproduction

You can select one of four settings for picture and sound effects that best suits the program.



1 Press MENU.

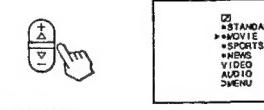
2 Make sure the cursor (>) is beside PROG PALETTE and press RETURN.

If the cursor is not beside PROG PALETTE, press + Δ or − Δ to move the cursor and press RETURN.



3 Select the item you want. For example:

(1) To select MOVIE, press + Δ or − Δ to move the cursor to MOVIE.



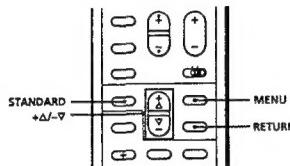
(2) Press RETURN.



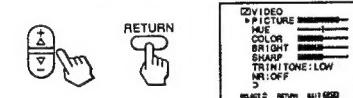
For details on each item, see "Effect of four items" in the right column.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the quality of the picture to suit your taste. You can adjust the picture of video input(s) as well, and these settings are stored separately from those for the broadcast signal.



- 1 Press MENU.
- 2 Make sure the cursor (>) is beside PROG PALETTE and press RETURN.
- 3 Press + Δ or - ∇ to move the cursor to VIDEO and press RETURN.



- 4 Select the item you want to adjust. For example:
(1) To adjust brightness, press + Δ or - ∇ to select BRIGHT.

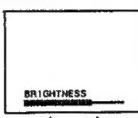


(2) Press RETURN.



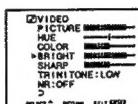
5 Adjust the selected item:

(1) Press + Δ or - ∇ to adjust the item.



(2) Press RETURN.

The new setting appears in the VIDEO menu.



For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5.

Description of adjustable items

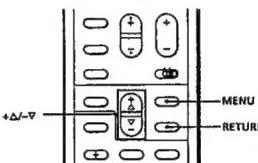
Item	Press + Δ to	Press - ∇ to
PICTURE	Increase picture contrast for vivid color	Decrease picture contrast for soft color
HUE	Make overall picture greenish	Make overall picture purplish
COLOR	Increase color intensity	Decrease color intensity
BRIGHT	Brighten the picture	Darken the picture
SHARP	Sharpen the picture	Soften the picture

To restore the factory settings

Press STANDARD while the VIDEO menu is displayed. All the settings except for PICTURE are restored to the factory settings. You can also do this by selecting STANDARD in the PROG PALETTE menu.

Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



1 Press MENU.

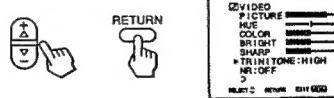
2 Make sure the cursor (>) is beside PROG PALETTE, and press RETURN.

3 Press + Δ or - ∇ to select VIDEO and press RETURN.

4 Press + Δ or - ∇ to select TRINITONE and press RETURN.



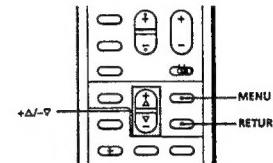
5 Press + Δ or - ∇ to select LOW or HIGH and press RETURN.



Choose	To
LOW	Make the white color reddish.
HIGH	Make the white color bluish.

Reducing picture noise (NR)

You can reduce picture noise when NR is set to ON.

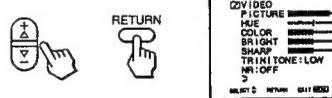


1 Press MENU.

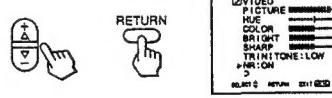
2 Make sure the cursor (>) is beside PROG PALETTE, and press RETURN.

3 Press + Δ or - ∇ to select VIDEO and press RETURN.

4 Press + Δ or - ∇ to select NR and press RETURN.

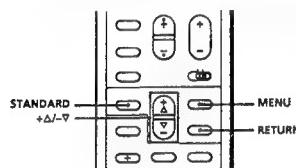


5 Press + Δ or - ∇ to select ON and press RETURN.



Adjusting sound (AUDIO)

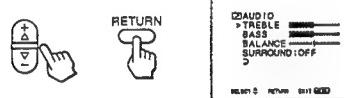
You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of video input(s) as well, and these settings are stored separately from those for the broadcast signal.



1 Press MENU.

2 Make sure the cursor (>) is beside PROG PALETTE, and press RETURN.

3 Press + Δ or - Δ to select AUDIO and press RETURN.



4 Select the item you want to adjust.

For example:

(1) To adjust bass, press + Δ or - Δ to select BASS.



(2) Press RETURN.



5 Adjust the selected item:

(1) Press + Δ or - Δ to adjust the item.



(2) Press RETURN.

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

6 To adjust other items, repeat steps 4 and 5 above.

Description of adjustable items

Item	Press + Δ to	Press - Δ to
TREBLE	Increase the treble response	Decrease the treble response
BASS	Increase the bass response	Decrease the bass response
BALANCE	Emphasize the right speaker's volume	Emphasize the left speaker's volume

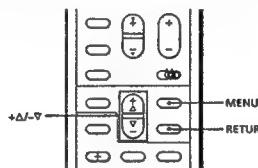
To restore the factory settings

Press STANDARD while the AUDIO menu is displayed.

You can also do this by selecting STANDARD in the PROG PALETTE menu.

Listening to surround sound (SURROUND)

The SURROUND feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Surround sound is only effective for stereo programs.

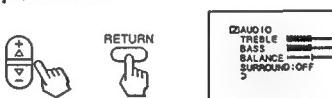


1 Press MENU.

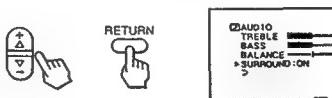
2 Make sure the cursor (>) is beside PROG PALETTE, and press RETURN.

3 Press + Δ or - Δ to select AUDIO and press RETURN.

4 Press + Δ or - Δ to select SURROUND and press RETURN.

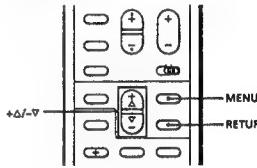


5 Press + Δ or - Δ to select ON and press RETURN.



Selecting stereo or bilingual programs (MTS)

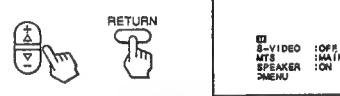
The Multichannel TV Sound (MTS) feature gives you the choice to enjoy stereo sound or Second Audio Programs (SAP) when available. The initial setting is stereo sound (MAIN).



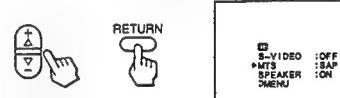
1 Press MENU.

2 Press + Δ or - Δ to select MODE SET and press RETURN.

3 Press + Δ or - Δ to select MTS and press RETURN.



4 Press + Δ or - Δ to select MAIN, SAP or MONO and press RETURN.



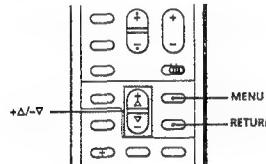
Choose	To
MAIN	Listen to stereo sound. The STEREO indicator on the projection TV lights up while a stereo broadcast is received.
SAP	Listen to bilingual programs. The sound of non-SAP programs will be muted when SAP is selected.
MONO	Reduce noise during stereo broadcasts.

Note

* Stereo and SAP sounds are subject to program sources.

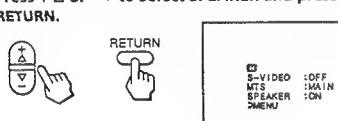
Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.

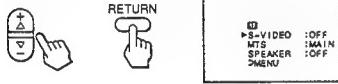


1 Press MENU.

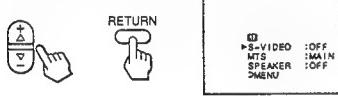
2 Press + Δ or - ∇ to select MODE SET and press RETURN.



3 Press + Δ or - ∇ to select SPEAKER and press RETURN.



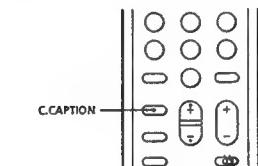
4 Press + Δ or - ∇ to select ON or OFF and press RETURN.



Displaying closed caption

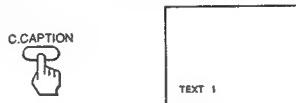
Some programs are broadcast with Closed Caption (Caption Vision). To display Closed Caption, select either CC1, CC2, TEXT1 or TEXT2 with the C.CAPTION button.

CC1 or CC2 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1 or TEXT2 shows you text, that is information presented using half to full of the screen. It is usually not related to the program.



Press C.CAPTION repeatedly to select the closed caption mode.
Each time you press C.CAPTION, the mode changes as shown below.

CC OFF → CC 1 → CC 2 → TEXT 1 → TEXT 2



If you do not want to display Closed Caption or Text, select CC OFF.

Note

- Captions may appear with a white box or another error instead of a certain word. Poor reception of TV programs can also cause errors in Closed Caption.

Setting daylight saving time (DAYLIGHT SAVING)

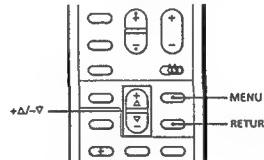
If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

- After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time (page 25), On/off Timer (page 26) and Channel Block (page 27) settings automatically move one hour ahead.

Daylight saving end

- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time, On/off Timer and Channel Block settings automatically move one hour back.



1 Press MENU.

2 Press + Δ or - ∇ to move the cursor (▶) to TIME and press RETURN.



3 Press + Δ or - ∇ to select DAYLIGHT SAVING and press RETURN.



4 Press + Δ or - ∇ to select YES or NO and press RETURN.

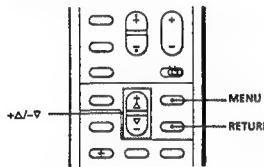


Choose	To
YES	Set for daylight saving start
NO	Set for daylight saving end

Setting the clock

(CURRENT TIME SET)

Set the current time before using On/off Timer (page 26) and Channel Block features (page 27). For example, set the clock to 3:15 p.m., Monday.



- 1 Press MENU.
- 2 Press + Δ or - Δ to select TIME and press RETURN.
- 3 Make sure the cursor (>) is beside CURRENT TIME SET, and press RETURN.
If the cursor is not beside CURRENT TIME SET, press + Δ or - Δ to move the cursor and press RETURN.



If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.



4 Set the current time.

(1) Press RETURN to start setting the time.



(2) Press + Δ or - Δ to select the day of the week and press RETURN.



(3) Using + Δ or - Δ and RETURN, select hour and minute in the same way as in step (2).



5 Press + Δ or - Δ to select START and press RETURN.

The clock starts working.

To correct the time

Display the CURRENT TIME SET screen and repeat steps above.

To display the current time

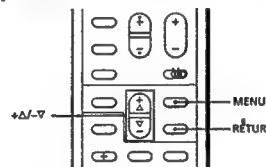
Press DISPLAY.

Note

- If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

Turning the projection TV on and off automatically (ON/OFF TIMER)

The ON/OFF TIMER feature allows you to make the TV program of your choice appear on the screen at your specified time.



1 Press MENU.

2 Press + Δ or - Δ to select TIME and press RETURN.

3 Press + Δ or - Δ to select ON/OFF TIMER and press RETURN.



4 Enter the ON/OFF TIMER setting.

(1) To set program 1, press RETURN.

To set program 2 or 3, press + Δ or - Δ to select that program and press RETURN.

(2) Press + Δ or - Δ to select the day of the week and press RETURN.

Each time you press + Δ or - Δ, the day of the week changes as shown below.

EVERY SUN-SAT → EVERY MON-FRI →

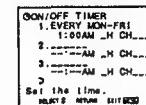
SUNDAY → MONDAY → ... → SATURDAY →

" → (blank)" → EVERY SUN → EVERY MON

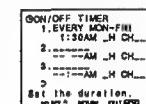
→ ... → EVERY SAT



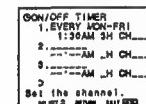
(3) Press + Δ or - Δ to select the starting hour and press RETURN.



(4) Press + Δ or - Δ to select the starting minute and press RETURN.



(5) Press + Δ or - Δ to select the hour duration and press RETURN.



(6) Press + Δ or - Δ to select the channel and press RETURN.



The TIMER/STAND BY indicator on the projection TV lights.

5 To set other programs, press RETURN and repeat step 4.

One minute before the projection TV switches to turn off, a message "TV WILL TURN OFF" is displayed on the screen.

To cancel an ON/OFF TIMER setting

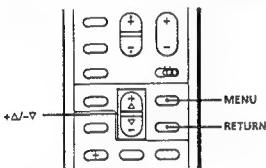
Display the ON/OFF TIMER screen, select the setting you want to cancel with + Δ or - Δ, and select the blank (----) for the day of the week.

Note

- If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time, then set the timer.

Blocking a TV program from appearing on the screen (CHANNEL BLOCK)

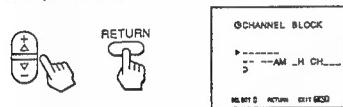
This feature allows you to prevent children from watching unsuitable programs. For example, set CHANNEL BLOCK for every Saturday at 4:30 p.m. for one hour, on channel 12.



1 Press MENU.

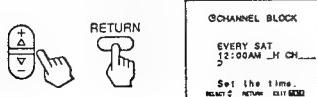
2 Press + Δ or - ∇ to select TIME and press RETURN.

3 Press + Δ or - ∇ to select CHANNEL BLOCK and press RETURN.

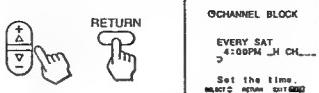


4 Enter a CHANNEL BLOCK setting.
(1) Press RETURN to start setting.

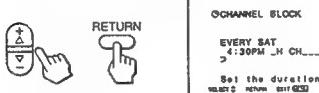
(2) Press + Δ or - ∇ to select the day of the week and press RETURN.
Each time you press + Δ or - ∇, the day changes as shown below.
EVERY SUN-SAT→EVERY MON-FRI→
SUNDAY→MONDAY→...→SATURDAY→
"---(blank)"→EVERY SUN→EVERY
MON→...→EVERY SAT



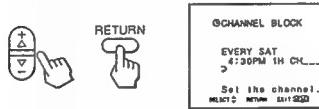
(3) Press + Δ or - ∇ to select the hour to start the channel block and press RETURN.



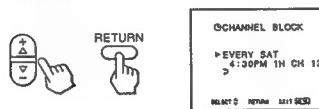
(4) Press + Δ or - ∇ to select the minute and press RETURN.



(5) Press + Δ or - ∇ to select the hour duration you want to block and press RETURN.
Each time you press RETURN, the hour duration increases by one hour up to a maximum of six hours.



(6) Press + Δ or - ∇ to select the channel and press RETURN.



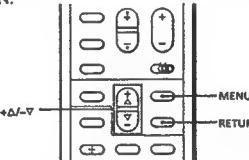
At the preset time, a message "BLOCKED" is displayed in red on the screen if the blocked channel is selected. During the preset duration, the picture of the preset channel is blocked and the sound is muted.

To cancel a CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and select a blank (---) for the day of the week.

Note
• If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other setting.

Customizing channel names (CH CAPTION)

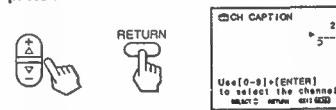
You can caption each channel number using up to four letters or numbers to be displayed on the screen. This feature allows you to easily identify which channel you are watching. For example, you can name channel 20 "ESPN."



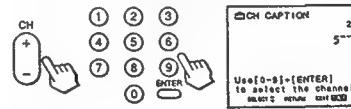
1 Press MENU.

2 Press + Δ or - ∇ to select SET UP and press RETURN.

3 Press + Δ or - ∇ to select CH CAPTION and press RETURN.



4 Press CH +/- or press 0-9 buttons and ENTER to enter the channel number that you want to caption, and press RETURN.



5 Enter the letters or numbers (up to four) to caption the channel:

(1) Press + Δ or - ∇ to select the first letter (number).

Each time you press + Δ or - ∇, the letter (number) changes as shown below.

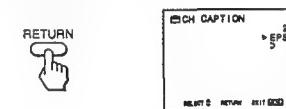
0→1→...→9→A→B→...→Z→-/→_(blank space)



(2) Press RETURN.



(3) Repeat steps (1) and (2) to select the remaining letters (numbers) and press RETURN.
For the caption space you want to leave blank, select "_ (blank)."



6 Repeat steps 4 and 5 to caption other channels.

To erase a caption

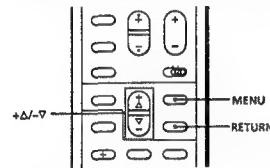
Select the channel number with the caption you want to erase in the CH CAPTION screen, select "_ (blank)" for the caption, and press RETURN.

Notes

- You can set up to 32 channel captions. If 32 captions have been set, "The memory is full, sorry" appears on the screen.
- If the CH CAPTION menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION. Press TV so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Setting video labels (VIDEO LABEL)

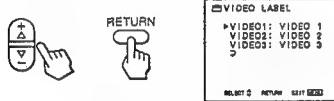
This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



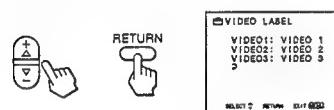
1 Press MENU.

2 Press + Δ or - ▽ to select SET UP and press RETURN.

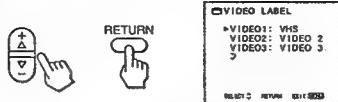
3 Press + Δ or - ▽ to select VIDEO LABEL and press RETURN.



4 Press + Δ or - ▽ to select the input mode you want to label and press RETURN.



5 Press + Δ or - ▽ to select the label and press RETURN.



Each time you press + Δ or - ▽, the label changes as shown below.

VIDEO 1
VIDEO 1→BETA→8mm→VHS→LD→S-VIDEO

VIDEO 2
VIDEO 2→BETA→8mm→VHS→LD

VIDEO 3
VIDEO 3→BETA→8mm→VHS→LD

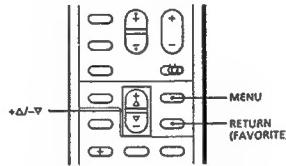
6 Repeat steps 4 and 5 to label other input modes.

Note
• If more than 90 seconds elapse after you press a button, the menu disappears automatically.

Selecting your favorite channels (FAVORITE CHANNEL)

This feature allows you to select the channels (up to seven channels) you use frequently by pressing RETURN (FAVORITE).

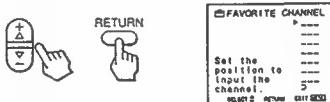
Setting the favorite channels



1 Press MENU.

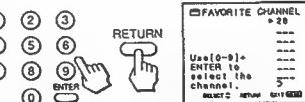
2 Press + Δ or - ▽ to select SET UP and press RETURN.

3 Press + Δ or - ▽ to select FAVORITE CHANNEL and press RETURN.



4 Press + Δ or - ▽ to select the position (up to seven) and press RETURN.

5 Press 0 – 9 and ENTER to set your favorite channel number and press RETURN.

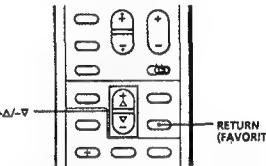


6 Repeat steps 4 and 5 to set other favorite channels.

To erase a favorite channel setting

Press + Δ or - ▽ to select the channel number you want to erase and press RETURN. Then press the 0 button and ENTER.

Selecting a favorite channel



1 Press RETURN.
The FAVORITE CHANNEL list appears showing the channel numbers you set with the captions (if set.)



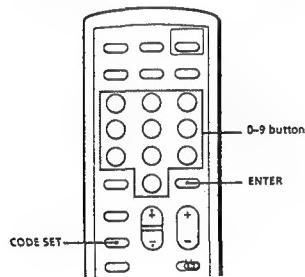
2 Press + Δ or - ▽ to select the channel you want to watch and press RETURN.



Operating video equipment

You can operate a piece of video equipment that has an infrared remote sensor with the supplied remote commander. Before operating, set the manufacturer's code number.

Setting the manufacturer's code



While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart in the right column) and press ENTER. For example, to operate a Sony 8 mm VCR, press 0, 2 and ENTER.



Manufacturer code numbers

Manufacturer	Code number
SONY	01, 02, 03, 04
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

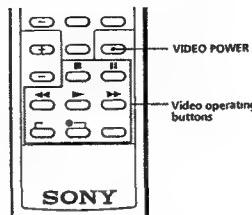
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
 - In some rare cases, you may not be able to operate your non-Sony video equipment with this remote commander. This is because your equipment may use a code that is not provided with this remote commander. In this case, please use the equipment's own remote control unit.
 - The code numbers for Sony equipment are assigned at the factory as follows:
- | | |
|--------------------|--|
| Beta, ED Beta VCRs | 01 |
| 8 mm VCR | 02 |
| VHS VCR | 03 (preset code for this remote commander) |
| MDP | 04 |

Caution

When you remove a battery from the remote commander, the code may revert to 03. Reset the codes each time you replace the battery, if necessary.

Operating video equipment



Use the video operating buttons on the remote commander to operate the video equipment.

Operating a VCR	Buttons on the remote commander
To turn on or off	Press VIDEO POWER
To change channels	Press CH +/-
To record	Press REC and REC simultaneously
To play	Press ▶
To stop	Press ■
To fast forward	Press ▶▶
To rewind the tape	Press ◀◀
To pause	Press II
To search the picture forward and backward	Press ▶▶ or ◀◀ during playback

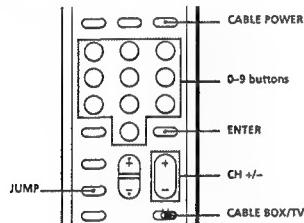
Operating a laser-disc player	Buttons on the remote commander
To play	Press ▶
To stop	Press ■
To pause	Press II
To resume normal playback, press again.	To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback
	To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/-

Note

- If the video equipment does not have a certain function, the corresponding button on this remote commander will not operate.

Operating a cable box

You can operate a connected cable box with the supplied remote commander. Before operating, set the manufacturer's code number.



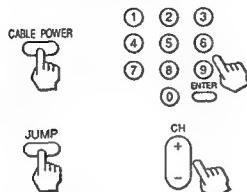
- Set the CABLE BOX/TV selector to CABLE BOX.



- While pressing CODE SET, press 0 – 9 to enter the manufacturer's code number (see the chart below) and press ENTER. For example, to operate a Zenith cable box, press 6 and 8 and press ENTER.



- Use CABLE POWER and the TV control buttons (0 – 9, ENTER, JUMP and CH +/-) to operate the cable box.



To operate the TV

Set the CABLE BOX/TV selector to TV. Then use the TV control buttons to control the TV.

For more details on operating the cable box
Refer to the operating instructions that come with the cable box.

Manufacturers and code numbers (cable box)

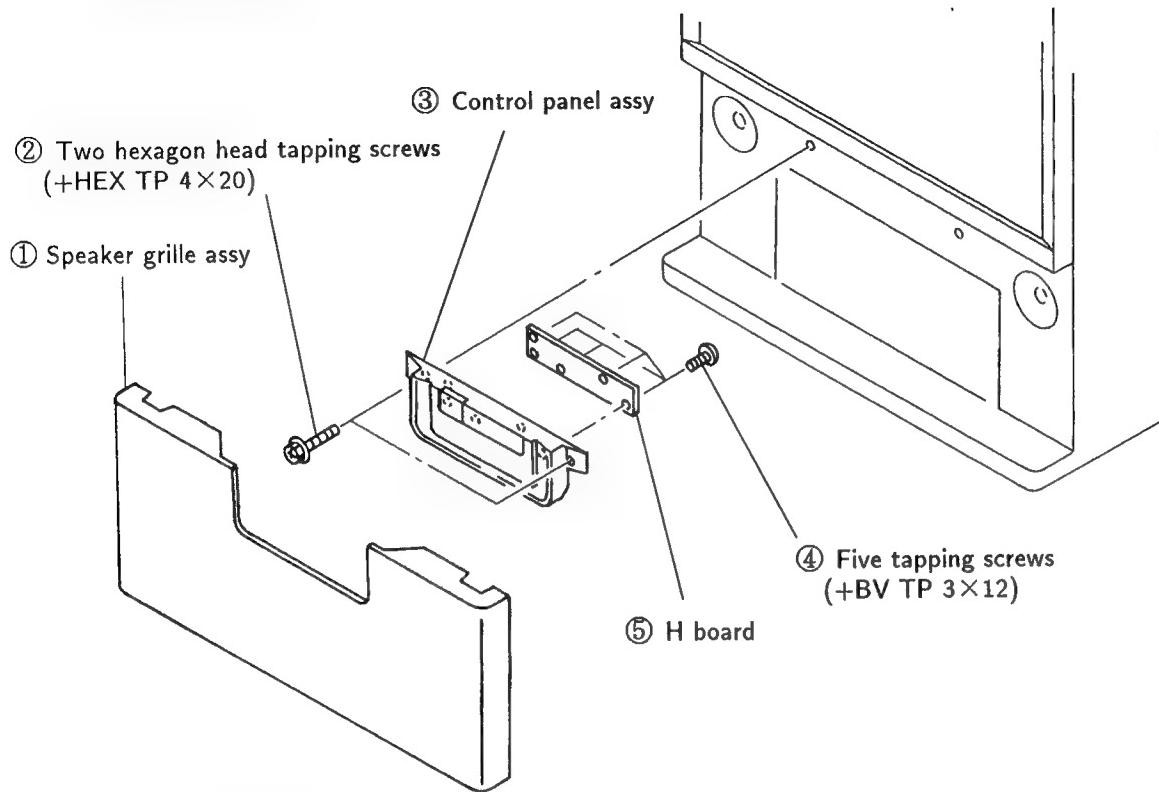
Manufacturer	Code number
JERROLD	60, 61, 62, 63, 64, 65, 73
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

Notes

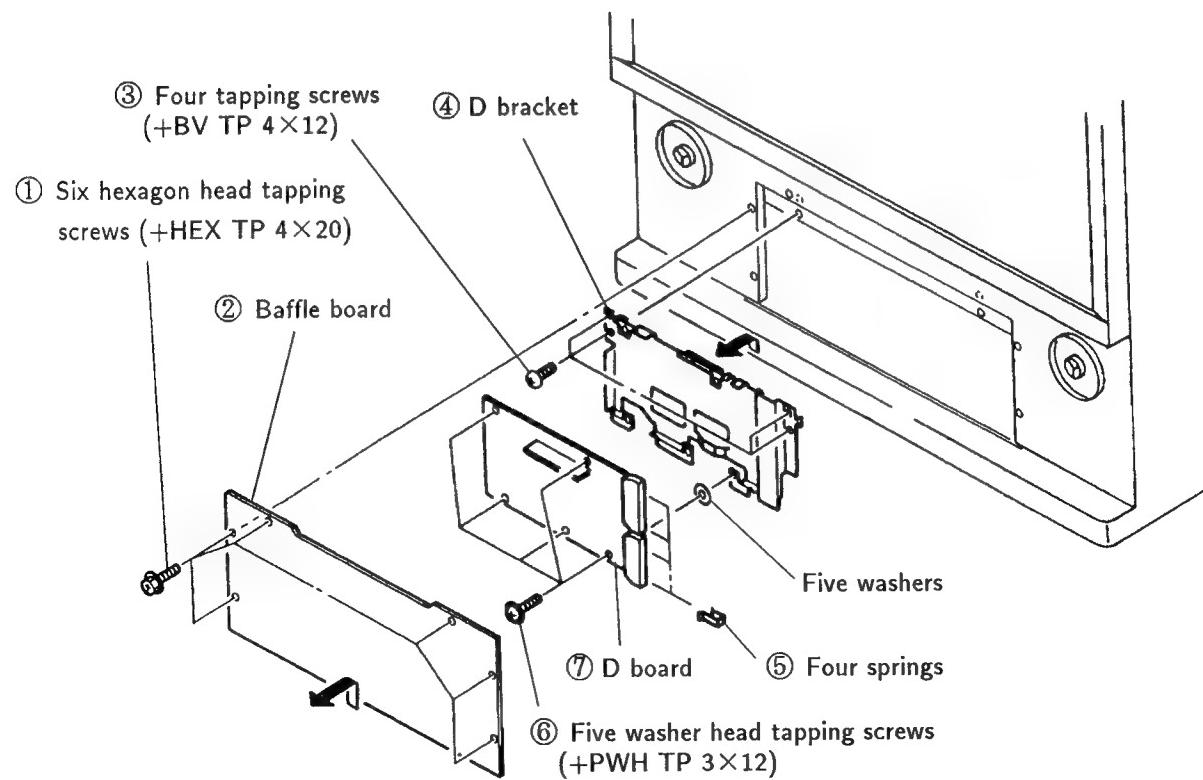
- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your cable box with the supplied remote commander. In this case, use the equipment's own remote control unit.
- When you remove a battery from the remote commander, the code may be erased. Reset the code each time you replace the battery, if necessary.

SECTION 2 DISASSEMBLY

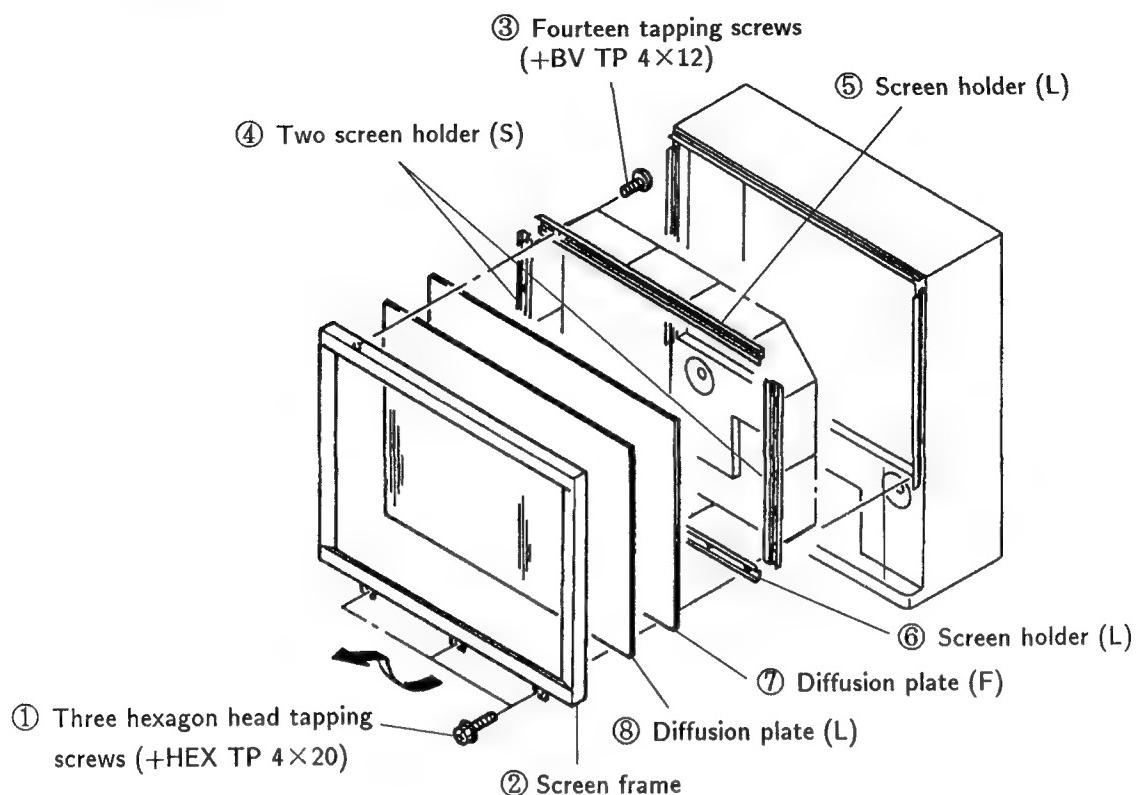
2-1. H BOARD REMOVAL



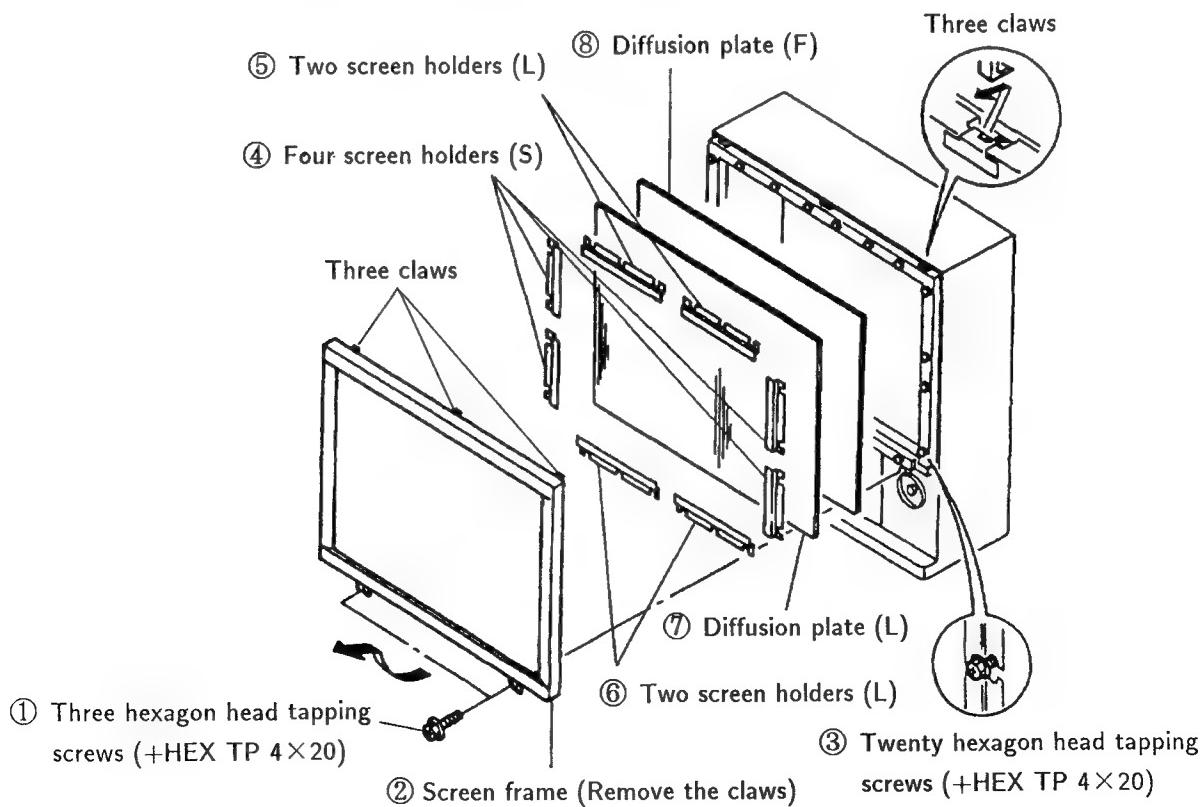
2-2. D BOARD REMOVAL



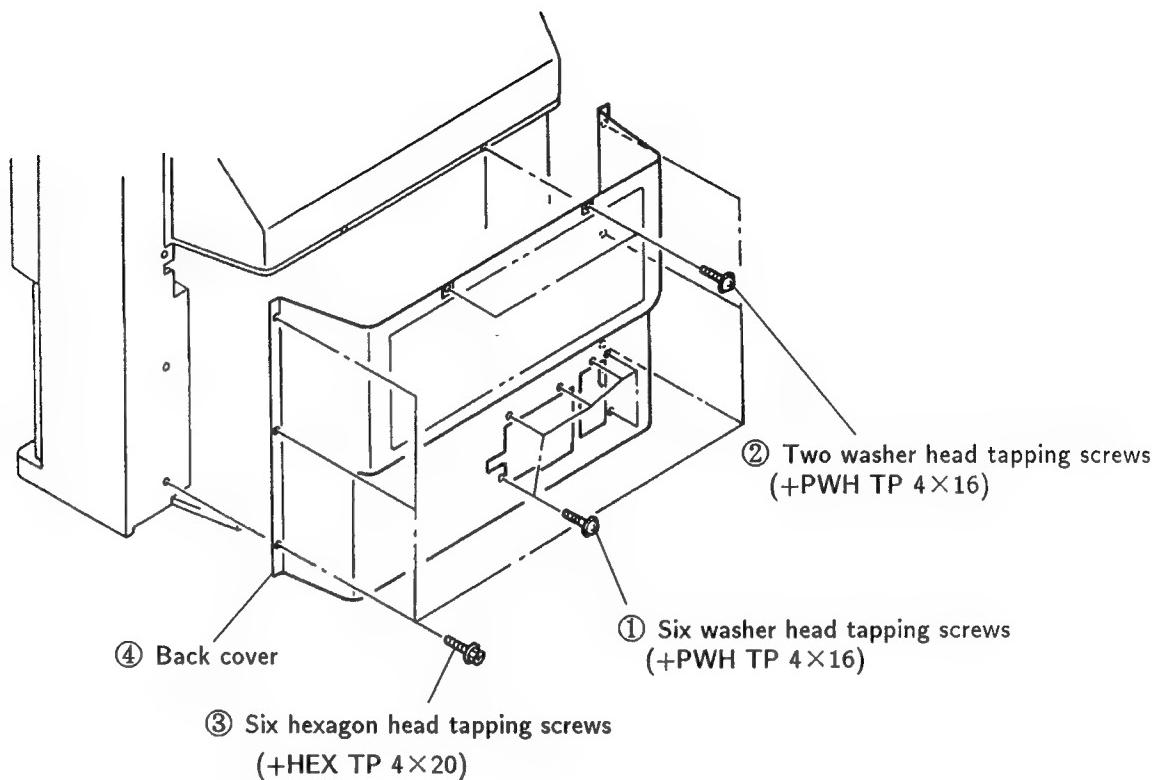
2-3-1. DIFFUSION PLATE REMOVAL (KP-46S55 only)



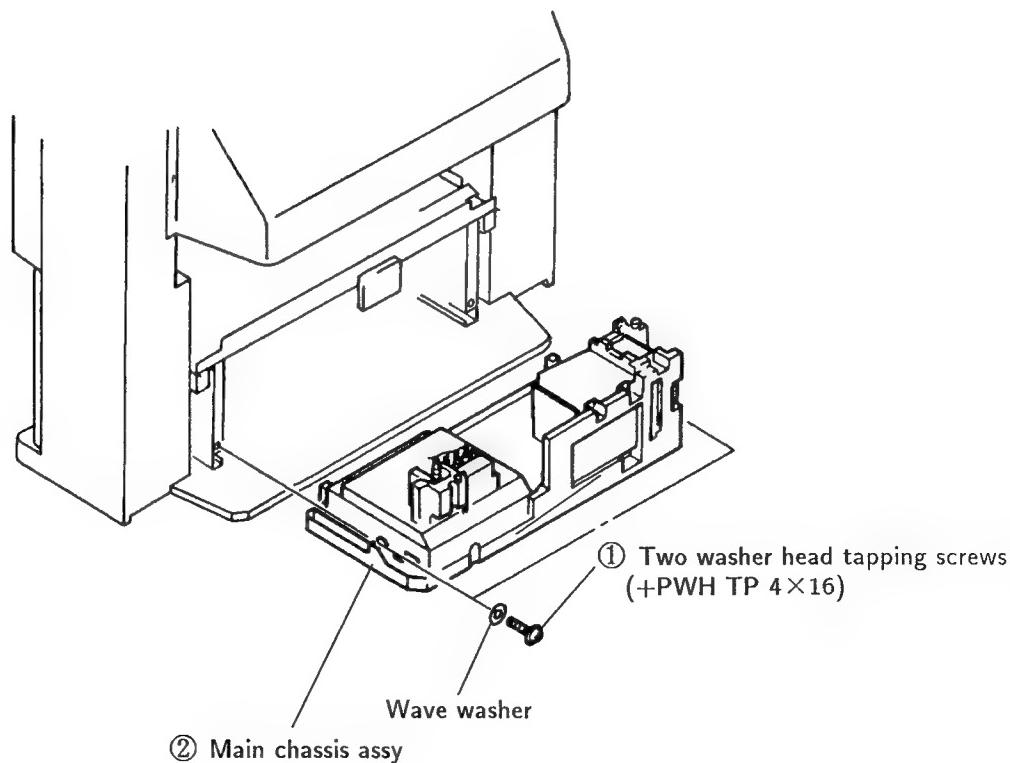
2-3-2. DIFFUSION PLATE REMOVAL (KP-53S55 only)



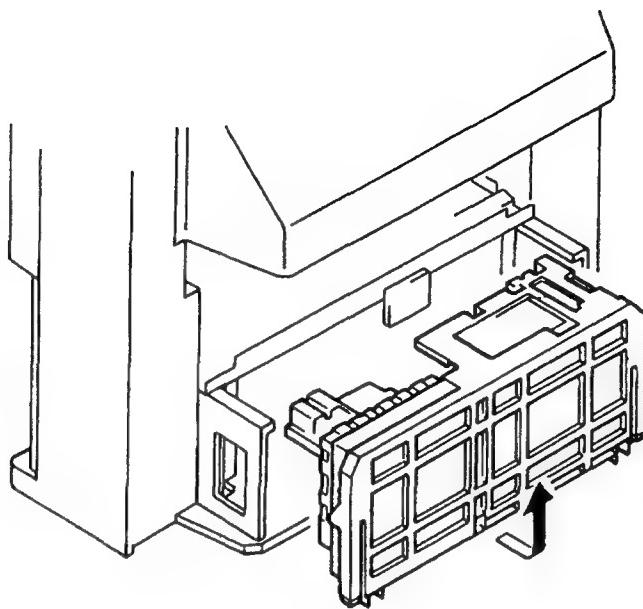
2-4. BACK COVER REMOVAL



2-5. MAIN CHASSIS ASSY REMOVAL



2-6. SERVICE POSITION



NOTES INSERTED IN SERVICE POSITION SECTION

Service Position Procedure

- (1) Remove the path locks where the harness comes into.
(MAIN bracket, G shield)
- (2) Remove the following connectors before removing the main bracket
* HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board), V-2 connector (V board).
- (3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards are considerably short.)
(MAIN bracket, G shield)

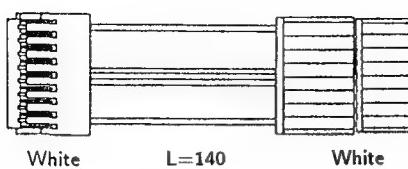
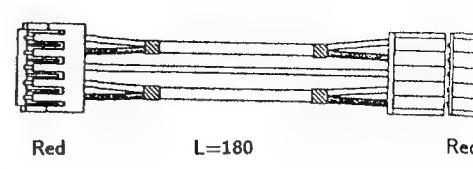
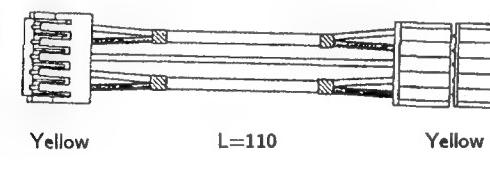
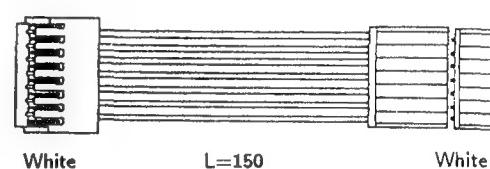
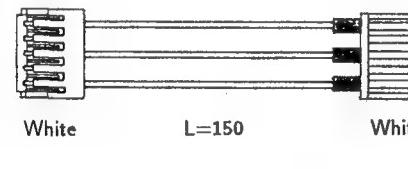
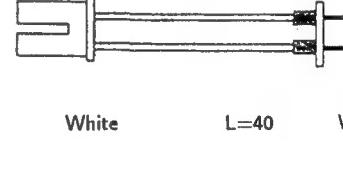
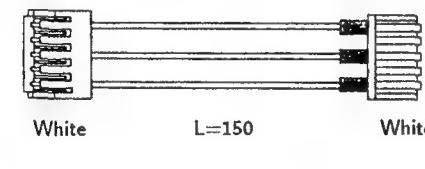
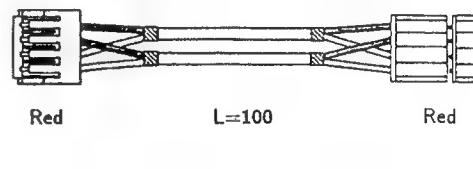
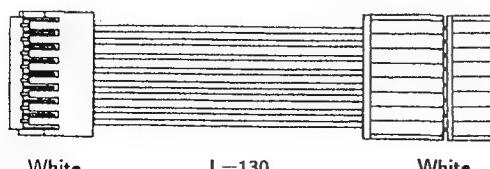
(4) When pulling out the main bracket with power ON, be sure to connect the connectors removed
* HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board).

In case that grounding lead (Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is dangerous.

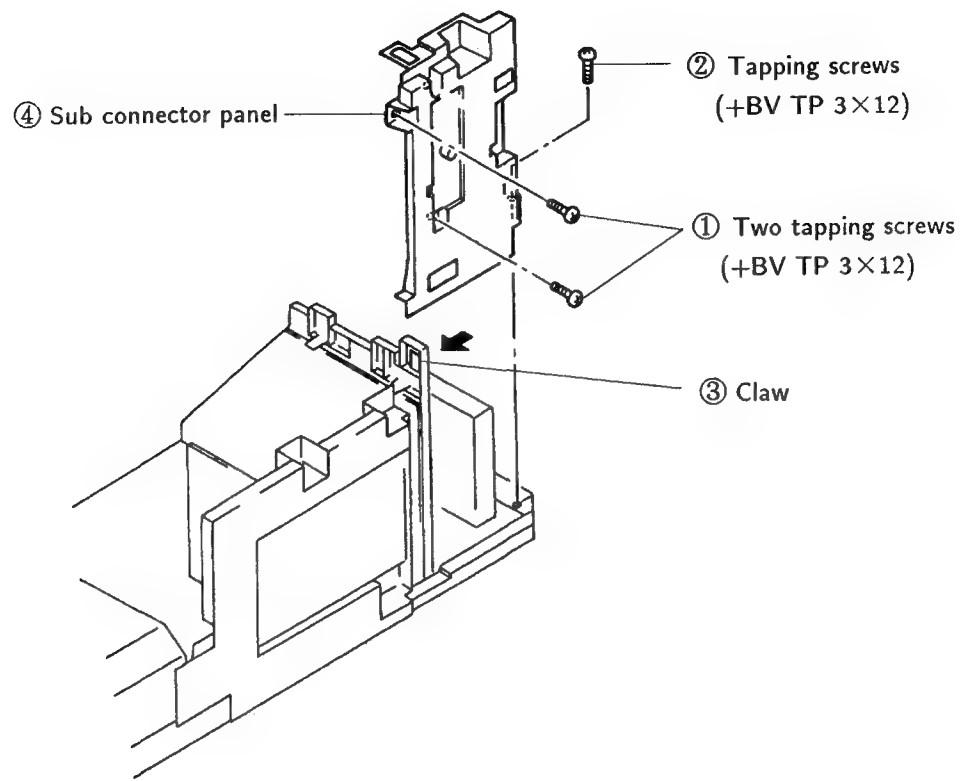
Be sure to connect grounding lead of HV Block with chassis grounding.

CONNECTOR CABLES

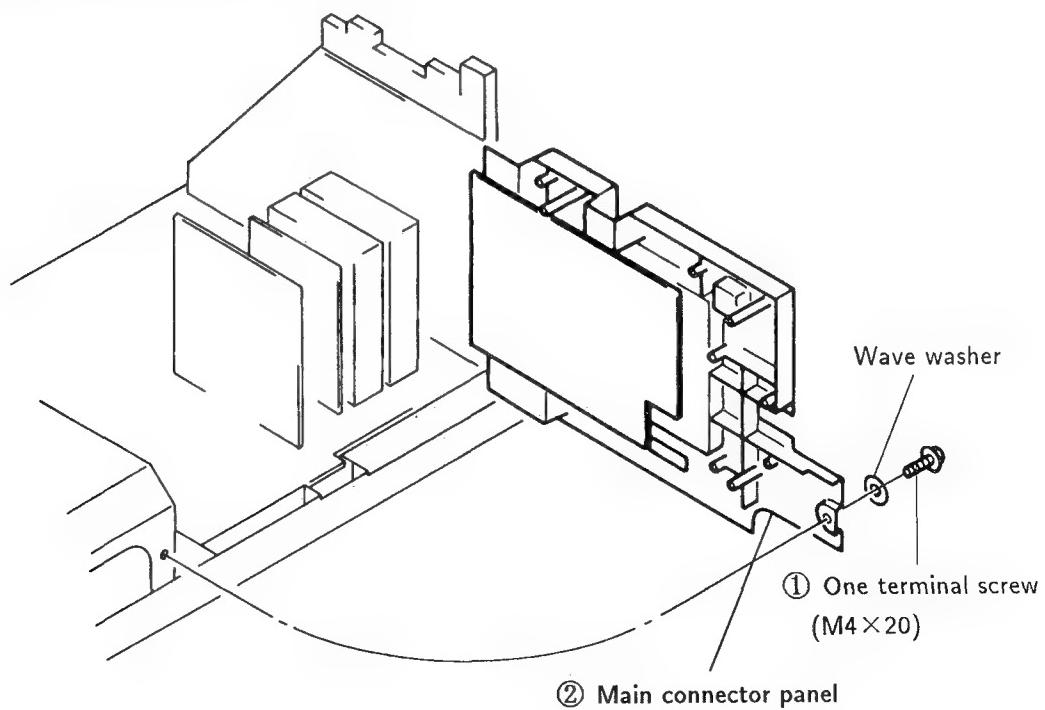
※ In order to put the set in the service position, use the extension connector cables below.

<table border="1"> <tr> <td>Parts No.</td> <td>Connection</td> </tr> <tr> <td>1-941-897-38</td> <td>CB-4 (G-4)</td> </tr> </table> <p>1 : Brown 2 : — 3 : — 4 : Yellow 5 : Green 6 : — 7 : — 8 : Gray</p>  <p>White L=140 White</p>	Parts No.	Connection	1-941-897-38	CB-4 (G-4)	<table border="1"> <tr> <td>Parts No.</td> <td>Connection</td> </tr> <tr> <td>1-941-897-43</td> <td>CR-15 (A-15)</td> </tr> </table> <p>1 : White/Gray 2 : Gray/Shield 3 : Orange 4 : Red/Gray 5 : Gray/Shield</p>  <p>Red L=180 Red</p>	Parts No.	Connection	1-941-897-43	CR-15 (A-15)
Parts No.	Connection								
1-941-897-38	CB-4 (G-4)								
Parts No.	Connection								
1-941-897-43	CR-15 (A-15)								
<table border="1"> <tr> <td>Parts No.</td> <td>Connection</td> </tr> <tr> <td>1-941-897-39</td> <td>CG-16 (A-16)</td> </tr> </table> <p>1 : White/Gray 2 : Gray/Shield 3 : Orange 4 : Red/Gray 5 : Gray/Shield</p>  <p>Yellow L=110 Yellow</p>	Parts No.	Connection	1-941-897-39	CG-16 (A-16)	<table border="1"> <tr> <td>Parts No.</td> <td>Connection</td> </tr> <tr> <td>1-941-897-44</td> <td>ZR-1 (D-1)</td> </tr> </table> <p>1 : Brown 2 : Red 3 : Orange 4 : Yellow 5 : Green 6 : Blue 7 : Violet</p>  <p>White L=150 White</p>	Parts No.	Connection	1-941-897-44	ZR-1 (D-1)
Parts No.	Connection								
1-941-897-39	CG-16 (A-16)								
Parts No.	Connection								
1-941-897-44	ZR-1 (D-1)								
<table border="1"> <tr> <td>Parts No</td> <td>Connection</td> </tr> <tr> <td>1-941-897-40</td> <td>ZG-19 (A-19)</td> </tr> </table> <p>1 : Green 2 : — 3 : Black 4 : — 5 : Brown</p>  <p>White L=150 White</p>	Parts No	Connection	1-941-897-40	ZG-19 (A-19)	<table border="1"> <tr> <td>Parts No</td> <td>Connection</td> </tr> <tr> <td>1-941-897-45</td> <td>A-21 (CRT BRACKET)</td> </tr> </table> <p>1 : Black 2 : Black</p>  <p>White L=40 White</p>	Parts No	Connection	1-941-897-45	A-21 (CRT BRACKET)
Parts No	Connection								
1-941-897-40	ZG-19 (A-19)								
Parts No	Connection								
1-941-897-45	A-21 (CRT BRACKET)								
<table border="1"> <tr> <td>Parts No</td> <td>Connection</td> </tr> <tr> <td>1-941-897-41</td> <td>ZR-18 (A-18)</td> </tr> </table> <p>1 : Red 2 : — 3 : Black 4 : — 5 : Brown</p>  <p>White L=150 White</p>	Parts No	Connection	1-941-897-41	ZR-18 (A-18)	<table border="1"> <tr> <td>Parts No.</td> <td>Connection</td> </tr> <tr> <td>1-941-897-47</td> <td>A-3 (G-3)</td> </tr> </table> <p>1 : Red 2 : White 3 : Gray/Shield 4 : Black</p>  <p>Red L=100 Red</p>	Parts No.	Connection	1-941-897-47	A-3 (G-3)
Parts No	Connection								
1-941-897-41	ZR-18 (A-18)								
Parts No.	Connection								
1-941-897-47	A-3 (G-3)								
<table border="1"> <tr> <td>Parts No</td> <td>Connection</td> </tr> <tr> <td>1-941-897-42</td> <td>ZG-2 (D-2)</td> </tr> </table> <p>1 : — 2 : Red 3 : Orange 4 : Yellow 5 : Green 6 : Blue 7 : Violet 8 : Gray</p>  <p>White L=130 White</p>	Parts No	Connection	1-941-897-42	ZG-2 (D-2)					
Parts No	Connection								
1-941-897-42	ZG-2 (D-2)								

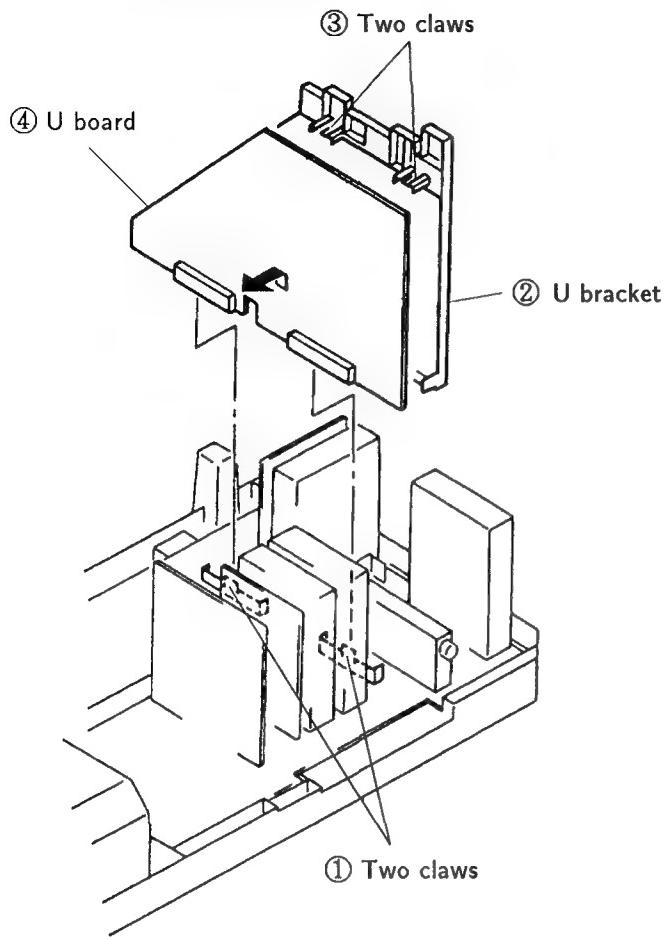
2-7. SUB CONNECTOR PANEL REMOVAL



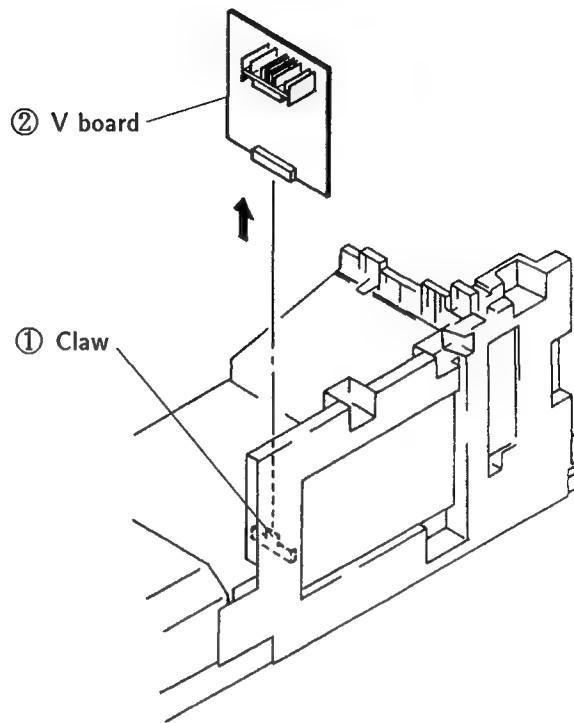
2-8. MAIN CONNECTOR PANEL REMOVAL



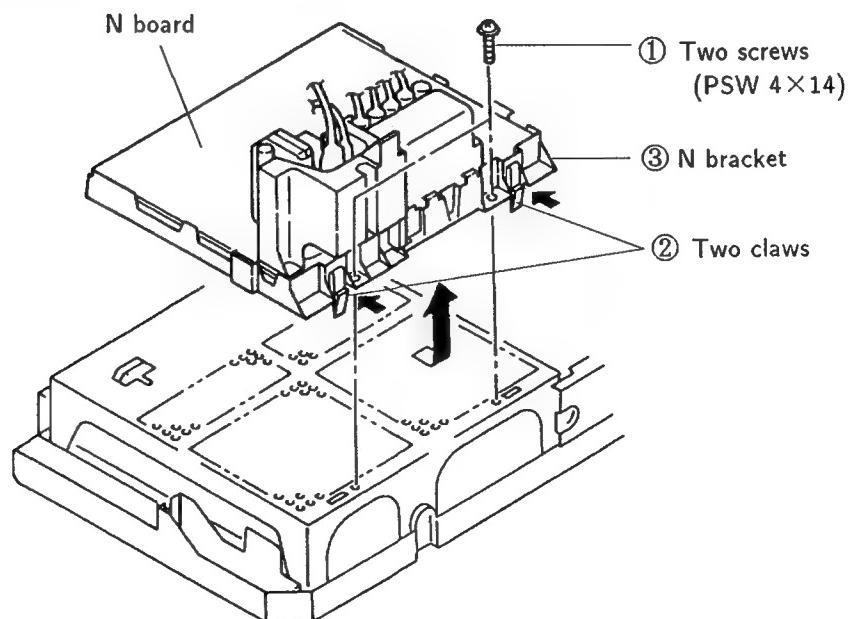
2-9. U BOARD REMOVAL



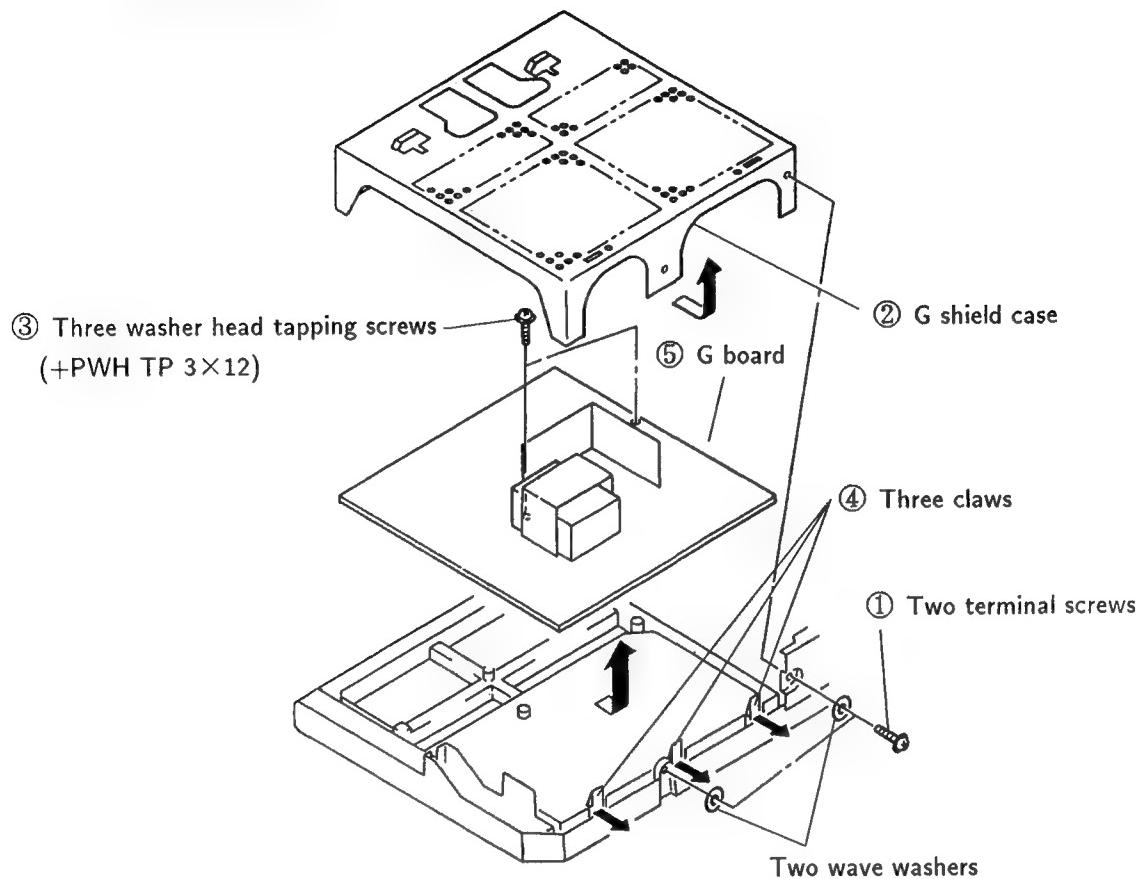
2-10. V BOARD REMOVAL



2-11. N BRACKET REMOVAL

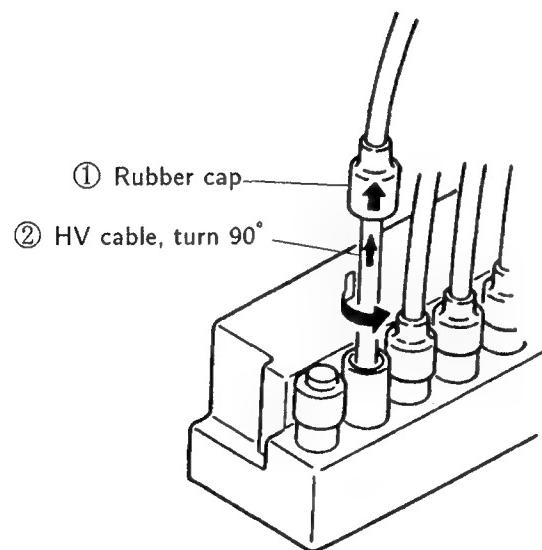


2-12. G BOARD REMOVAL

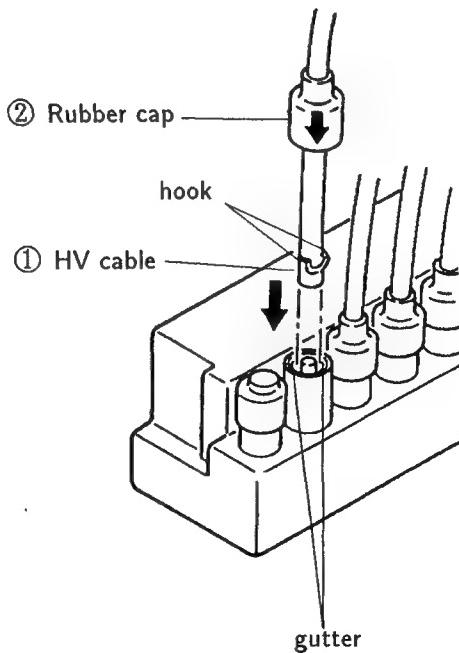


2-13. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

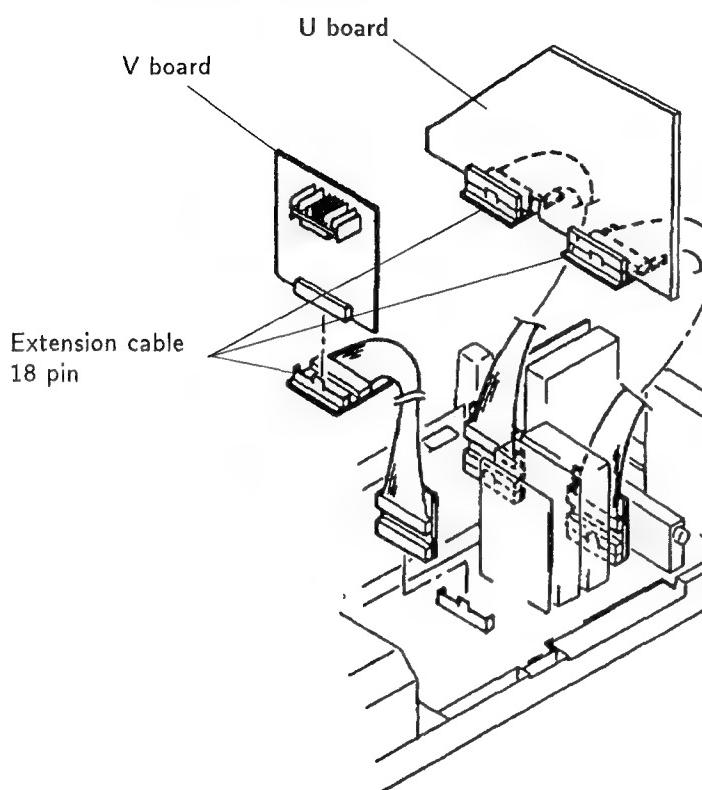
(1) Remover



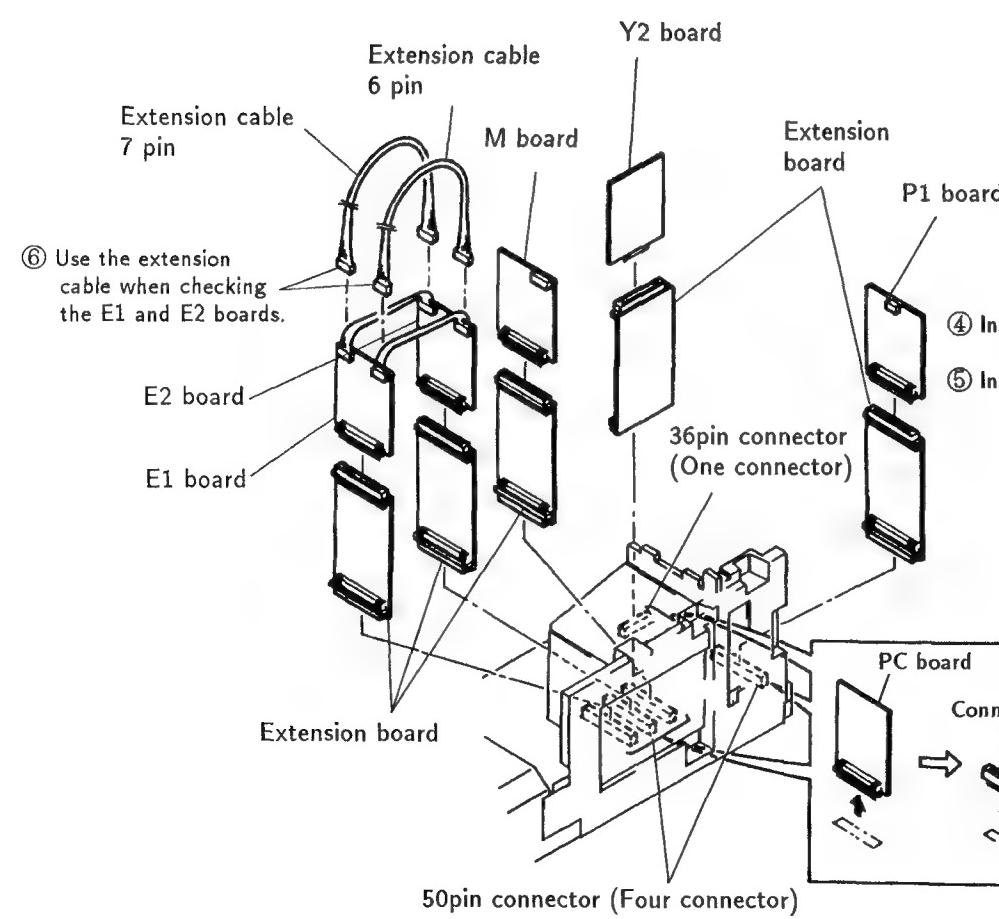
(2) Installation



2-14. EXTENSION CABLE AND EXTENSION BOARD

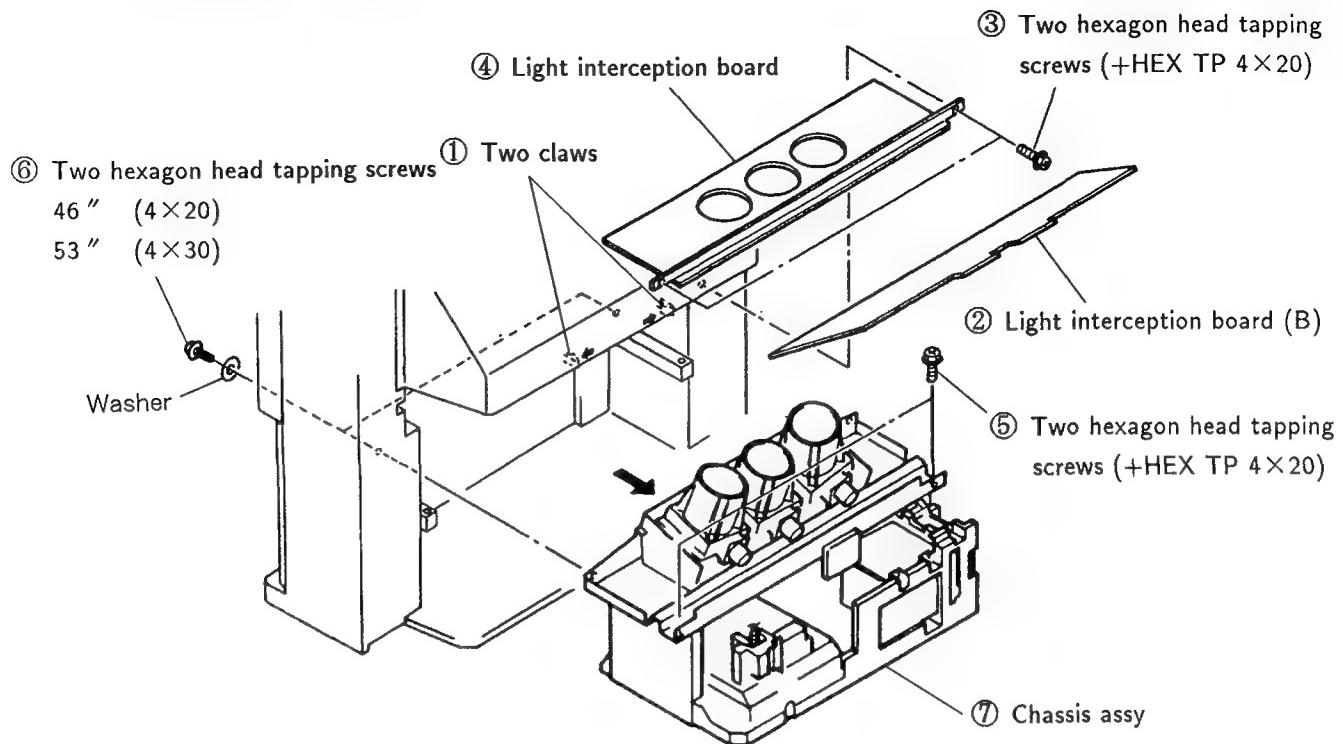


- ① Remove the board from the connector.
- ② Install the extension cable.
- ③ Install the board

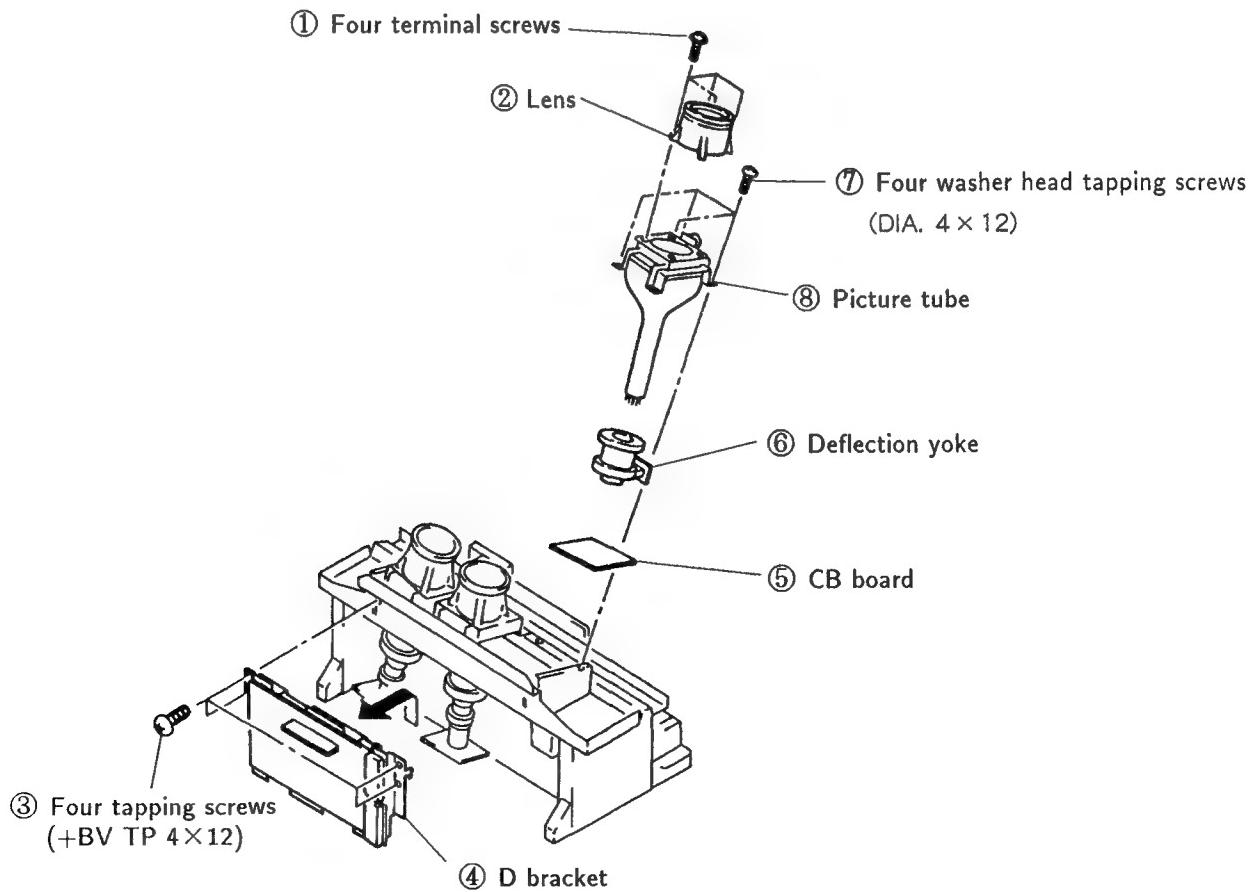


Exterior
Extension cable
1-941-891-33
1-941-891-31
1-941-891-32
3-702-558-01
3-702-557-01
3-702-561-01
36pin connector
3-702-560-01
50pin connector
3-702-559-01
Extension board

2-15. CHASSIS ASSY REMOVAL



2-16. PICTURE TUBE REMOVAL

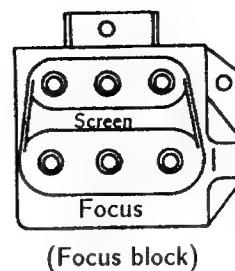
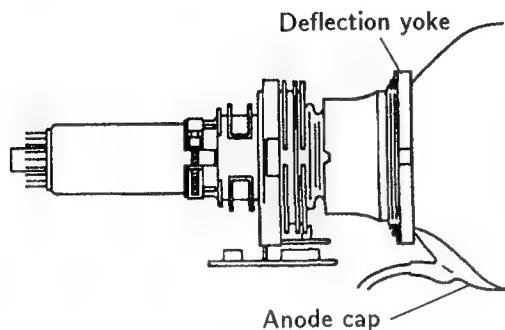


SECTION 3

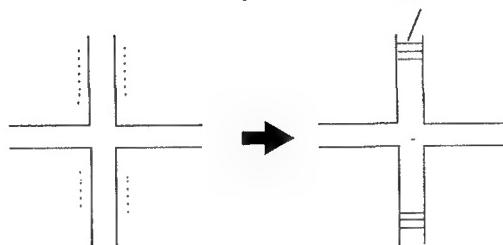
SET-UP ADJUSTMENTS

3-1. FOCUS LENS ADJUSTMENTS

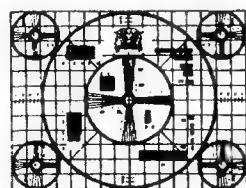
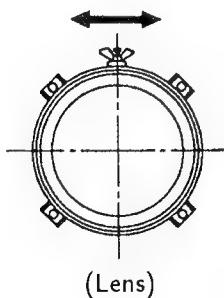
1. Set the D-board registration variable resistors (VR) to mechanical center.
2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.



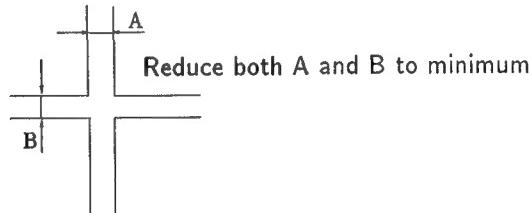
Verify that scanning lines are seen



3. Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
4. Set PICTURE and BRIGHTNESS maximum. Press the commander menu button. Select CONVERGENCE to display test signal.
5. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
6. Turn the green lens to eliminate flare of the test signal.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



8. Repeat above 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
9. Adjust the red and blue focuses similarly.

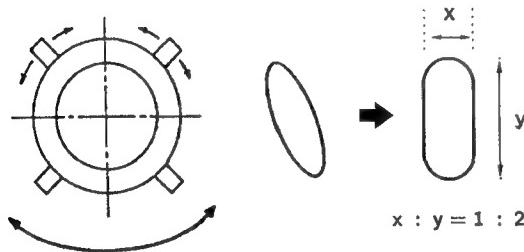
3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
5. Also adjust DY positions for red and blue outputs in the same way.

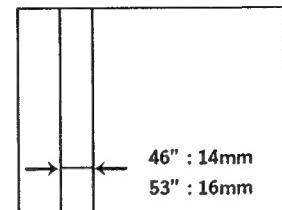
3-3. 4-POLE MAGNET ADJUSTMENT (BLUE)

1. Input dot signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select G OFF to cut off green output.
3. Set PICTURE to maximum. Turn the blue focus variable resistor (VR) in the focus block clockwise from the just focus until the dot diameter becomes as shown below.
 $46'' : 17 \sim 22 \text{ mm}$
 $53'' : 19 \sim 26 \text{ mm}$
4. Adjust the 4-pole magnet to make the dot as shown below.
5. Turn the blue focus variable resistor to the just focus.

* Use the vertical center and left end dot

**3-4. DE-FOCUS ADJUSTMENT (BLUE)**

1. Input cross hatch signal.
2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below.

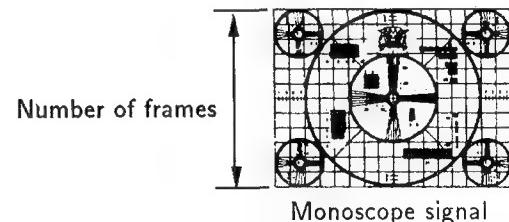


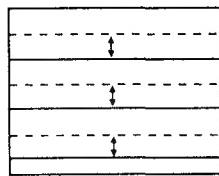
without flare

3-5. GREEN PICTURE ADJUSTMENTS

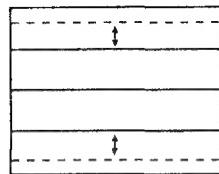
1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitude variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 frames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.

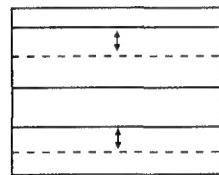




RV905 V.G CENT
(vertical position)



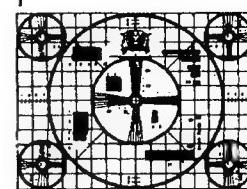
RV911 V.G SIZE
(vertical amplitude)



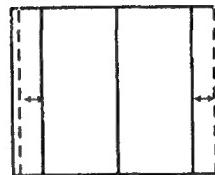
RV913 V.G LIN
(vertical linearity)



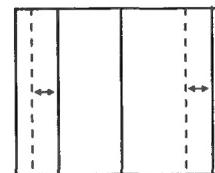
Number of frames



Monoscope signal



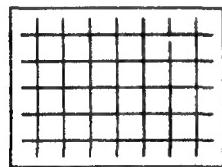
RV908 H.G SIZE
(horizontal position)



RV916 H.G LIN
(horizontal linearity)



- Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



- Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.

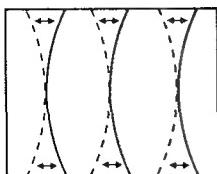
- Input cross hatch signal.

Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps :

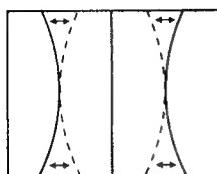
(Adjustment procedure)

- [BOW] → [SKEW] → [CENT (center position)]
- [PIN (pin warp)] → [SUB BOW] → [BOW]
- [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]
※ For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] → [V/WING (vertical wing warp)]
※ For vertical (V) only.
- [H-M.PIN (horizontal middle pin warp)]
※ For horizontal (H) only.

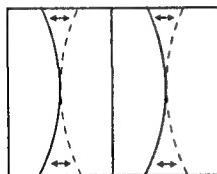
(Dot motion)



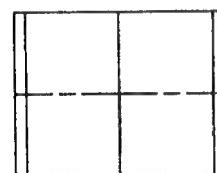
RV932 H.G BOW
(horizontal green bow)



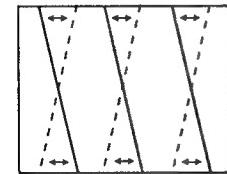
RV941 H.G PIN
(horizontal green pin warp)



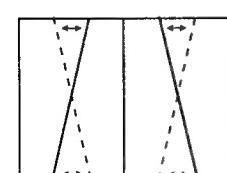
RV950 H.G SUB BOW
(horizontal green sub bow)



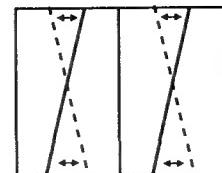
V.G BOW RV935
V.G PIN RV938
V.G SUB BOW RV953



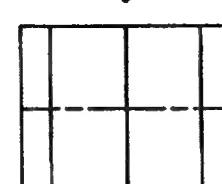
RV920 H.G SKEW
(horizontal green skew)



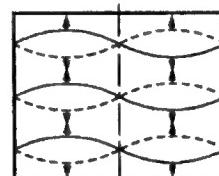
RV925 H.G KEYS
(horizontal green trapezoid)



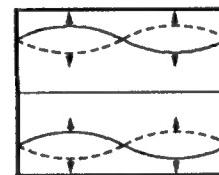
RV944 H.G SUB SKEW
(horizontal green sub skew)



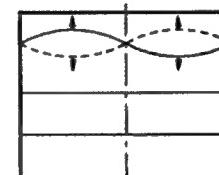
V.G SKEW RV923
V.G KEYS RV929
V.G SUB SKEW RV947



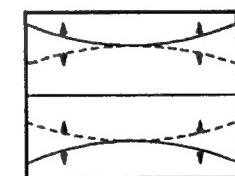
RV962 V-M-WAVE
(vertical middle sine wave warp)



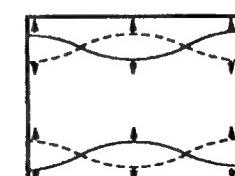
RV975 V-WAVE-A
(vertical upper and lower sine wave warp)



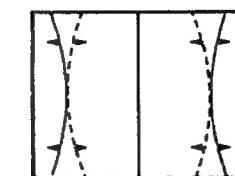
RV978 V-WAVE-U
(vertical upper sine wave warp)



RV980 V-M. PIN
(vertical middle pin warp)
※ Common in red, green, and blue



RV957 V/WING
(wing warp)
※ Common in red, green, and blue



RV956 H/M. PIN
(horizontal middle pin warp)

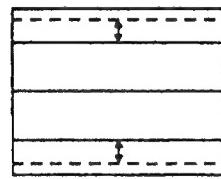
3-6. GREEN AND RED REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
3. Turn the vertical red (V.R) and horizontal red (H.R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps :

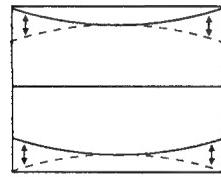
(Adjustment procedure)

1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
 2. [BOW] → [SKEW] → [CENT (center position)]
 3. [PIN (pin warp)] → [SUB BOW] → [BOW]
[H/M. PIN (horizontal middle pin warp)]
 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
 5. [M.WAVE (middle sine wave warp)] →
[WAVE-A (upper and lower sine wave warp)] →
[WAVE-U (upper sine wave warp)]
- ※ For vertical (V) only.

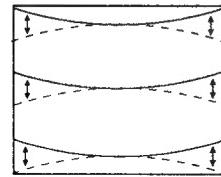
(Dot motion)



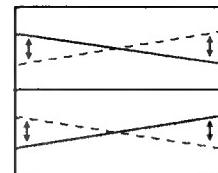
RV912 V.B SIZE
(vertical red amplitude)



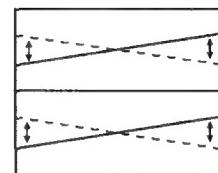
RV952 V.R SUB BOW
(vertical red sub bow)



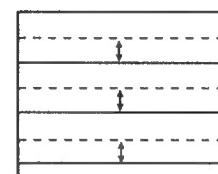
RV943 V.R BOW
(vertical red bow)



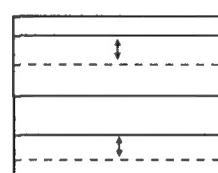
RV928 V.R KEYS
(vertical red trapezoid)



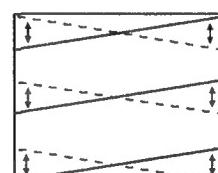
RV946 V.R SUB SKEW
(vertical red sub skew)



RV904 V.R CENT
(vertical red center position)



RV917 V.R LIN
(vertical red linearity)



RV922 V.R SKEW
(vertical red skew)

H.R LIN.....	RV915
H.R SIZE.....	RV907
H.R CENT	RV901
H.R BOW.....	RV931
H.R SKEW.....	RV919
H.R PIN	RV940
H.R KEYS.....	RV926
H.R SUB BOW.....	RV949
H.R SUB SKEW.....	RV943
V-M-WAVE.....	RV973
V-WAVE-A	RV976
V-WAVE-U.....	RV979
V-M.PIN	RV980
V/WING	RV957
H/M.PIN.....	RV956

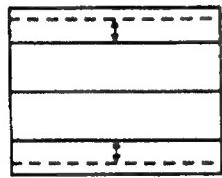
3-7. GREEN AND BLUE REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps :

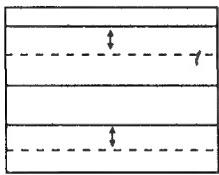
(Adjustment procedure)

1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)] →
2. [BOW] → [SKEW] → [CENT (center position)]
3. [PIN (pin warp)] → [SUB BOW] → [BOW]
[H/M. PIN (horizontal middle pin warp)]
4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
5. [M.WAVE (middle sine wave warp)] →
[WAVE-A (upper and lower sine wave warp)] →
[WAVE-U (upper sine wave warp)] →

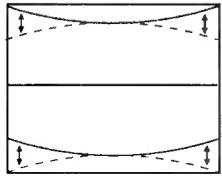
(Dot motion)



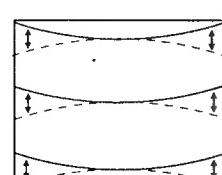
RV912 V.B SIZE
(vertical blue amplitude)



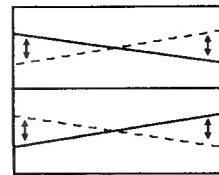
RV918 V.B LIN
(vertical blue linearity)



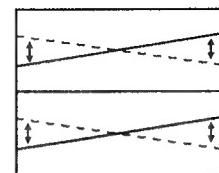
RV954 V.B SUB BOW
(horizontal blue sub bow)



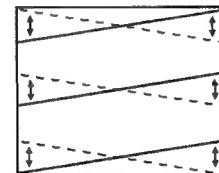
RV936 V.B BOW
(vertical blue bow)



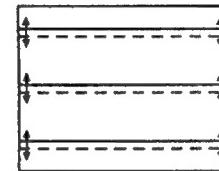
RV930 V.B KEYS
(vertical blue trapezoid)



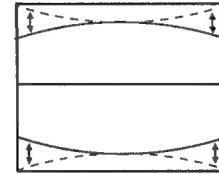
RV948 V.B SUB SKEW
(vertical blue sub skew)



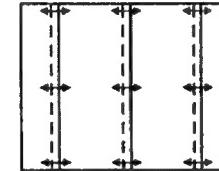
RV924 V.B SKEW
(vertical blue skew)



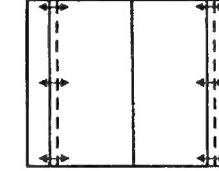
RV906 V.B CENT
(vertical blue center position)



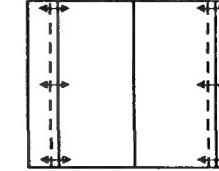
RV939 V.B PIN
(vertical blue pin warp)



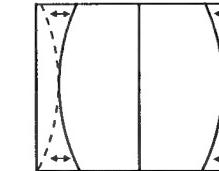
RV903 H.B CENT
(vertical blue center position)



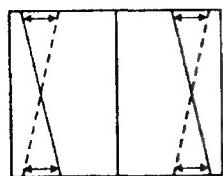
RV909 H.B SIZE
(horizontal blue amplitude)



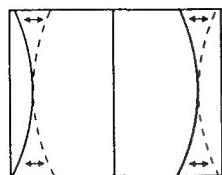
RV914 H.B LIN
(horizontal blue linearity)



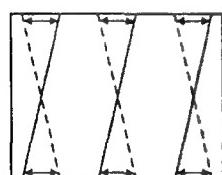
RV942 H.B PIN
(horizontal blue pin warp)



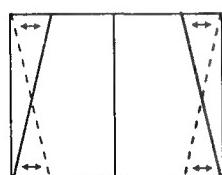
RV954 H.B SUB SKEW
(horizontal blue sub skew)



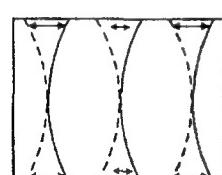
RV951 H.B SUB BOW
(horizontal blue sub bow)



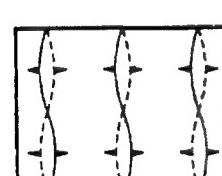
RV921 H.B SKEW
(horizontal blue skew)



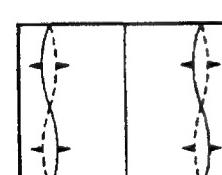
RV927 H.B KEYS
(horizontal blue trapezoid)



RV933 H.B BOW
(horizontal blue bow)



RV981
※ Common in red,
green, and blue



RV982
※ Common in red,
green, and blue



H/M PIN	RV958
M.WAVE.....	RV961
WAVE-A.....	RV974
WAVE-U.....	RV977

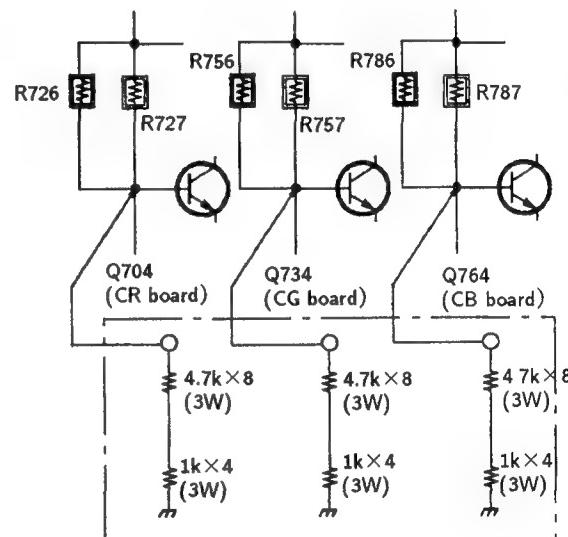
3-8. REGISTRATION CHECK

1. Out put red, blue, and green.
2. Out put cross hatch and monoscope signals to check registration. Also check focus.

3-9. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

1. Input white signal.
2. Remove connectors CR-15, CG-16, and CB-17.
3. Fit jigs between the ground and R726, R756, and R787.



※ Resistors in each jig are connected serial.

4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
5. Insert connectors CR-15, CG-16, and CB-17.

**2) White balance adjustments (SBRT, GAMP, BAMP,
GCUT, BCUT)**

1. Input monoscope signal and enter service mode.
2. Select the picture quality adjustment from the menu and set PICTURE minimum.
3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
4. Input white signal.
5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4 SAFETY RELATED ADJUSTMENT

4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

- ·HV block, IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902.

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

- ·HV block, IC803, IC804, Q804, D806, D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

- ① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881
- ② IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

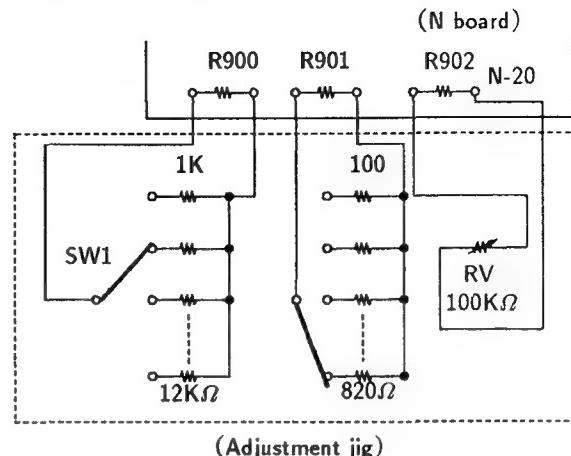
When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

- Q618, Q621, D628, C634, R639, R649, R652, R655, R656

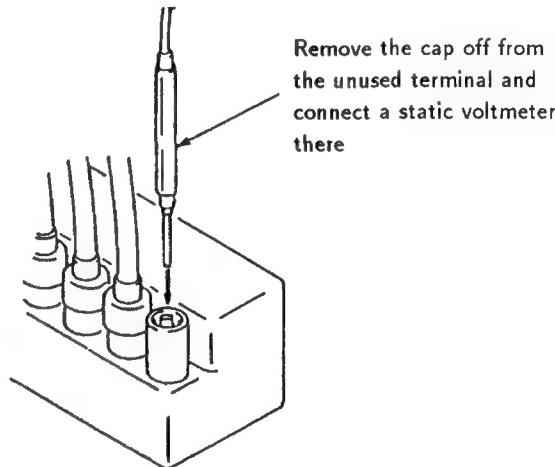
— Checking with static voltmeter —

HV HOLD DOWN ADJUSTMENTS (R900, R901)

1. Verify that the power switch is off.
2. Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



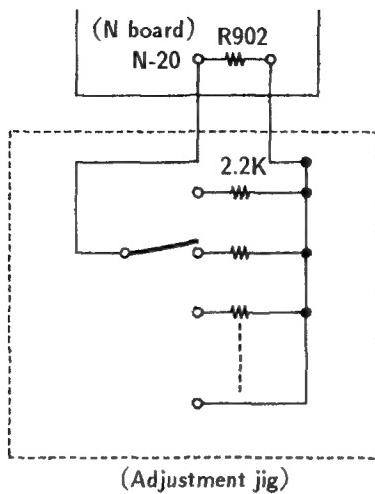
3. Connect an external variable resistor (RV) to R902 of the N board.
4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.



5. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read $33.50 \pm 0.50\text{kVDC}$.
7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.
R900 : Must be $1\text{k}\Omega$ to $12\text{k}\Omega$
R901 : Must be $J_w 100\Omega$ to 820Ω
8. Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, $33.50 \pm 0.50\text{kV}$.

HV REGULATOR ADJUSTMENTS (R902)

1. Connect the HV adjustment resistance jig to R902 of the N board.



2. Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
3. Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
4. Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value, $31.50 \pm 0.50\text{kV}$.
5. Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, $31.50 \pm 0.50\text{kV}$ is read.
6. Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, $31.50 \pm 0.50\text{kV}$, is read.

+B VOLTAGE CONFIRMATION

1. Receive 120 ± 1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, $115.0 \pm 2\text{V}$ is read.

CHECKING AFTER REPLACING IC601

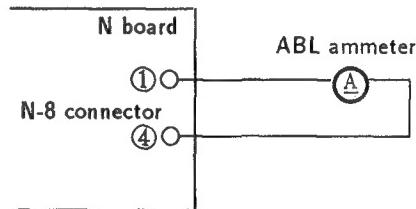
1. When replacing IC601, check the +B voltage.

CHECKING THE OVP (overvoltage protection) CIRCUIT (R652)

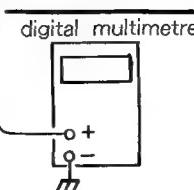
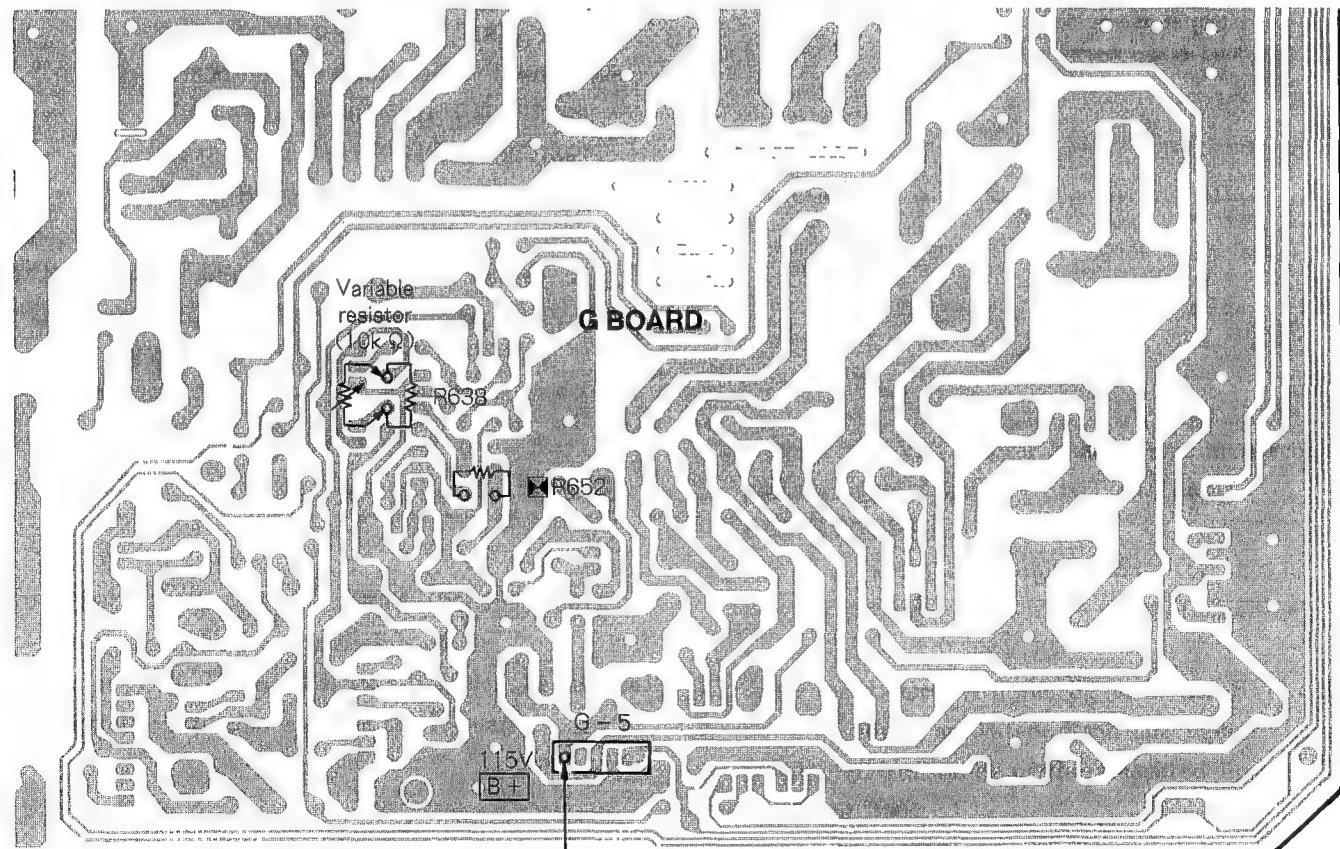
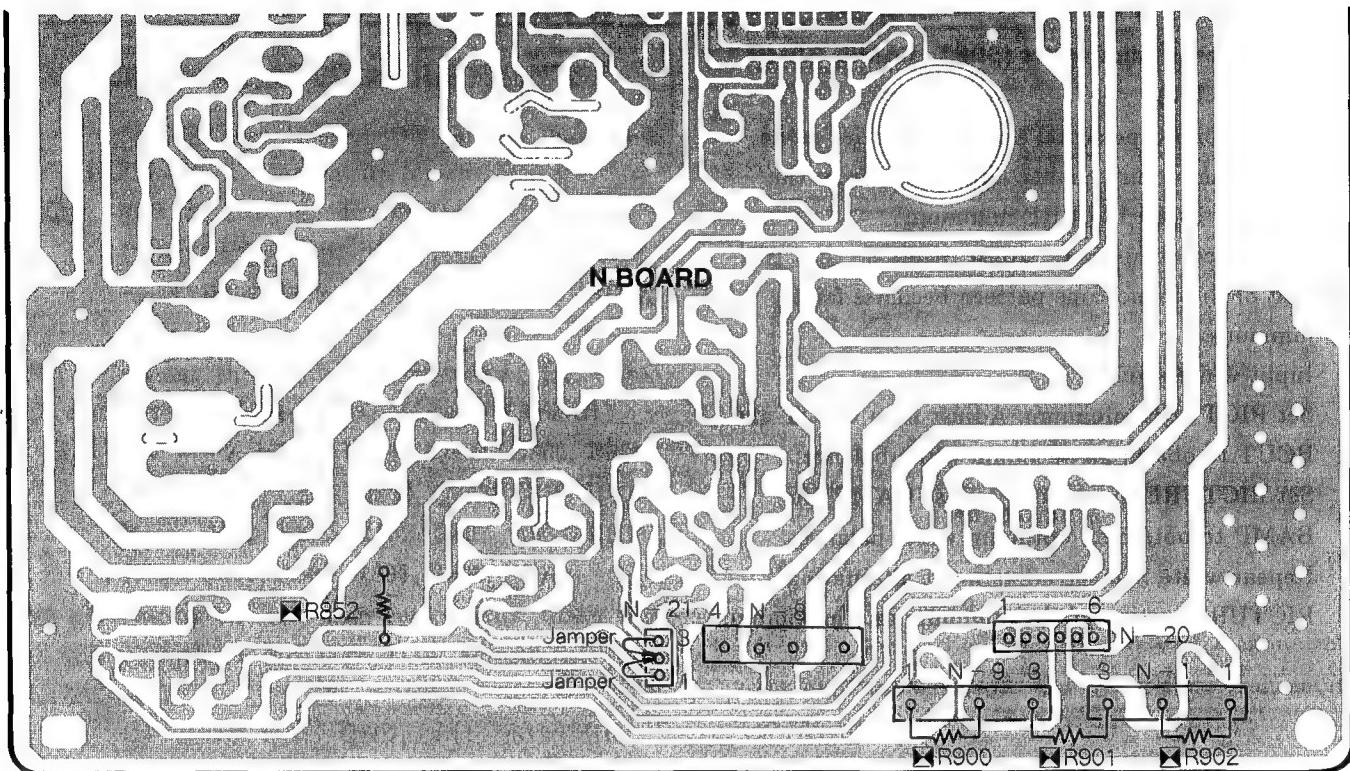
1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
2. Remove the jumper connector from the G-6 connector on the G board and connect a variable resistor (4.7 to $10\text{k}\Omega$) between pin ② and pin ③ of the G-6 connector.
3. Turn the variable resistor of $10\text{k}\Omega$ and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value, 125.0 ± 5.0 VDC.

BEAM CURRENT PROTECTOR CHECK (R852)

1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
2. Connect pin ① and pin ② of the N-21 connector. (on the N board)
3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ④ of the N-8 connector.



4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value, $3400 \mu\text{A}$.
5. Connect pin ③ and pin ② of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.



— Checking without static voltmeter —

HV HOLD DOWN ADJUSTMENT (R900, R901)

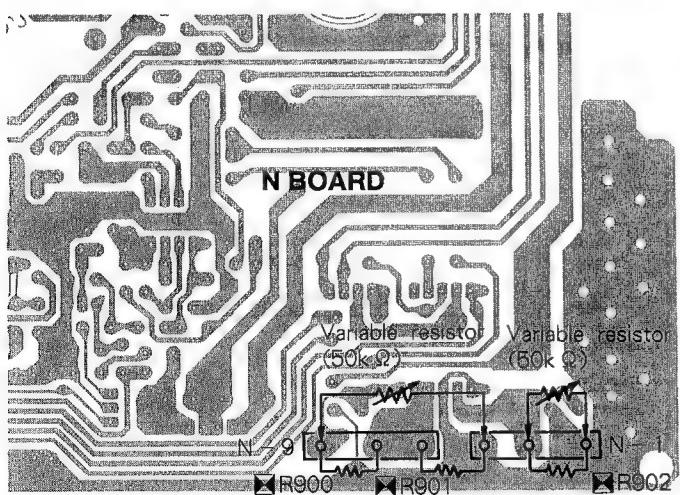
1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
2. Remove R902 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
3. Remove R900 and R901 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read 145.0VDC.
6. Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
7. Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note: Select fixed resistance from the following ranges.

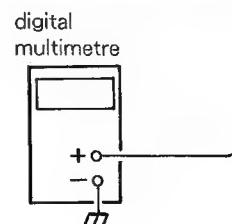
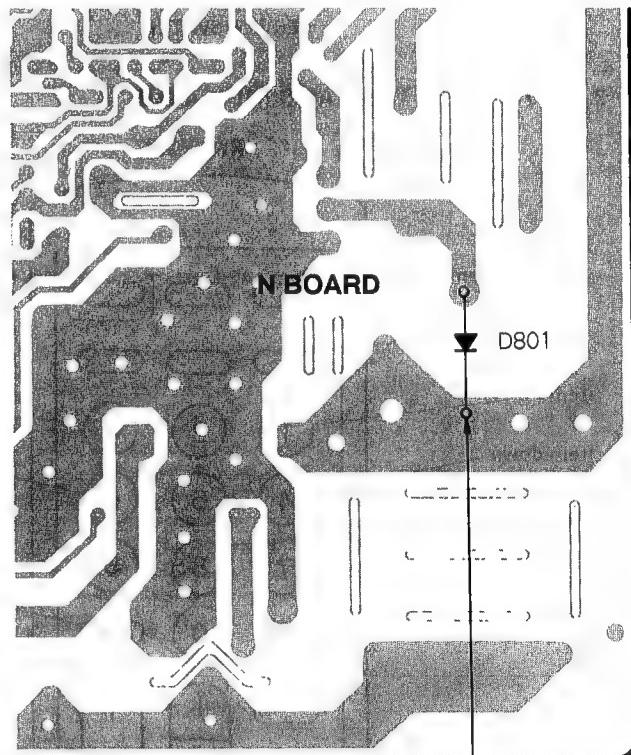
R900: $1k\Omega$ to $12k\Omega$

R901: $J_w 100\Omega$ to 820Ω

8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads $134 \pm 1.0V$.

**HV REGULATOR ADJUSTMENT (R902)**

1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
 2. Connect a variable resistor of $50k\Omega$ on each end of R902 of the N board. Maximize resistance.
 3. Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
 4. Turn on power. Adjust the variable resistor so that the digital multimeter reads $135.0V \pm 1.0V$.
 5. Read the variable resistance then.
 6. Mount a fixed resistor of the measured resistance to R902.
- Note: R902: Must be $2.2k\Omega$ to $27k\Omega$
7. Turn on power again. Confirm that the digital multimeter reads $135.0V \pm 1.0V$.



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

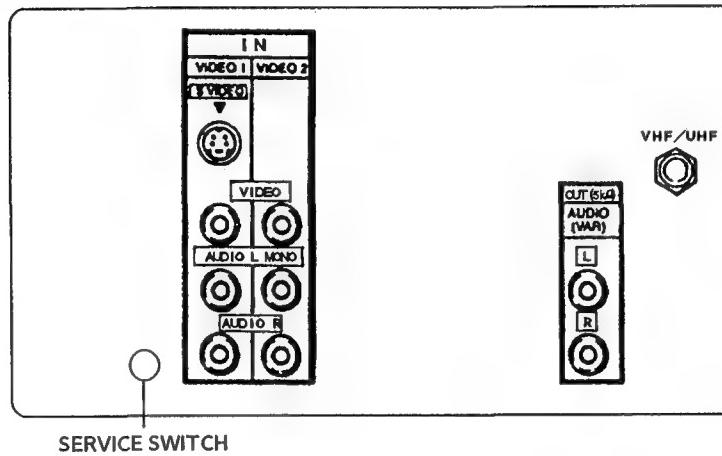
Use of Remote Commander (RM-Y125) can be performed circuit adjustments about this model.

1. METHOD OF SETTING THE SERVICE MODE

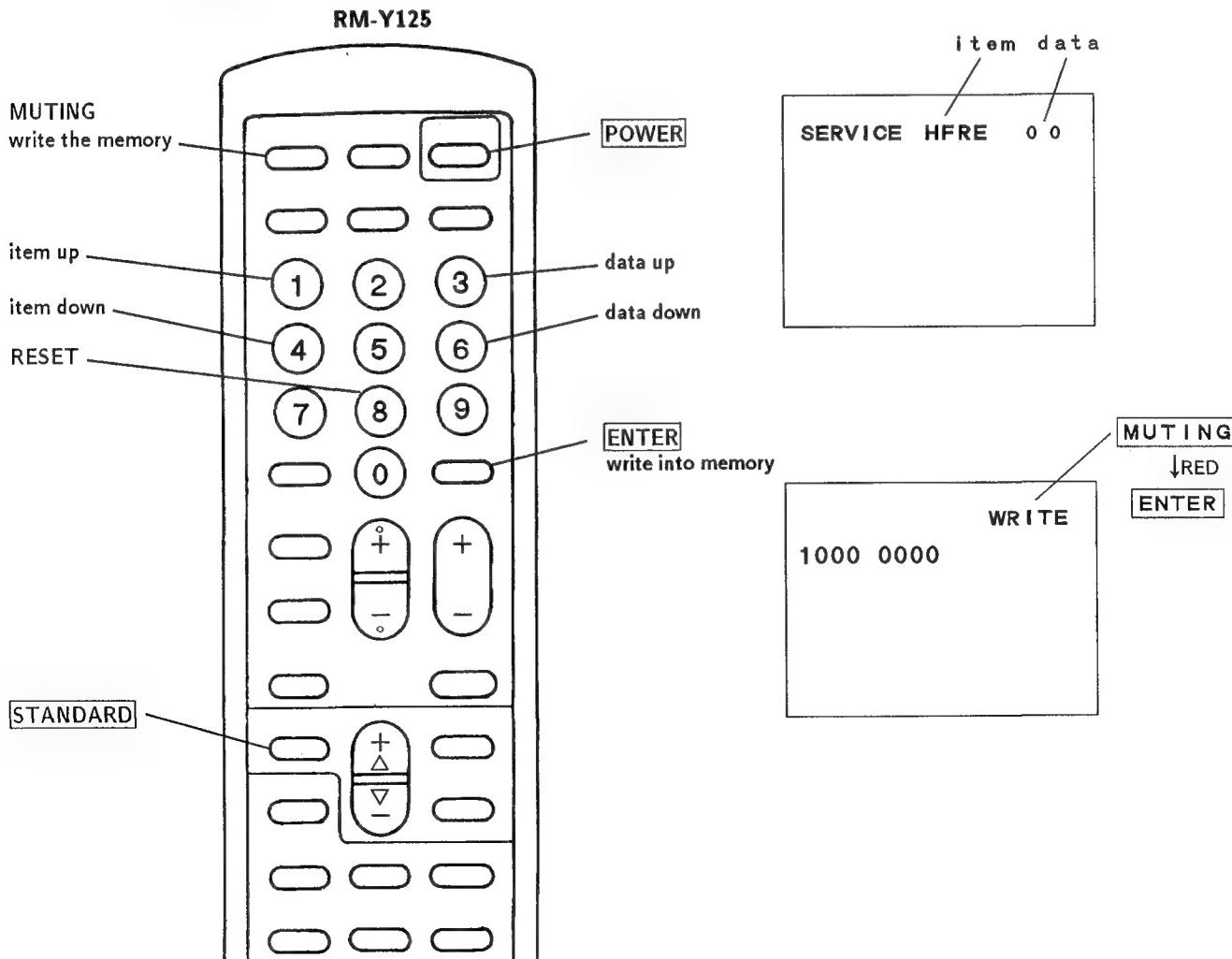
- 1) Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.

NOTE : Test Equipment Required.

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio OSC



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

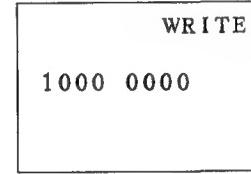
ITEM	REFERENCE DATA	NAME REGIST	
AFC	0	VP	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
VPOS	15	VP	V. SHIFT
VSIZ	31	VP	V. SIZE
VLIN	7	VP	V. LINEARITY
VSCO	7	VP	VS. CORRECTION
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
BAMP	20	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT	6	VP	BLUE CUT OFF
SPIX	30	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	28	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	21		POSITION
VSMO	0	VP	VSMO
REF	1	VP	REF 1.0
ROFF	1	VP	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	1	VP	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	T
MPX	7	AP	ATT
FILO	31	AP	I1
DEEM	7	AP	I2
STEV	31	AP	OSC 1
SAPV	31	AP	OSC 2
PILO	7	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	8	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
PPLL	1	PI	PLL OFF
PPVS	6	PI	VSP DEL
SHAD	0	PJ	SHADING
VMSW	0	PJ	VM
SCUT	16	PJ	SHAD CUT OFF
DSPP	30	PJ	POSITION

4. METHOD OF CANCELLATION FROM SERVICE**MODE**

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **[1]** (UP) and **[4]** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory.

6. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

5-2. A BOARD ADJUSTMENTS

RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin③ of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **[1]** and **[4]**.
- 6) Adjust **[3]** and **[6]** to the 15735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "01".
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.

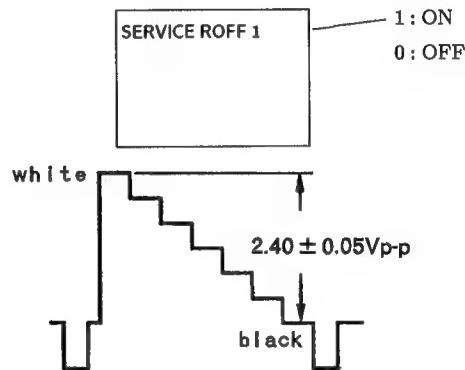
V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector ⑬pin of E 1-1 connector and ground.
- 4) Select VFRE with **[1]** and **[4]**.
- 5) Adjust **[3]** and **[6]** to the 56 ± 0.5 Hz.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	..... MAX
COLOR	..... MIN
BRIGHTNESS	..... MIN
TRINITONE	..... LOW
R OFF	..... ON
G OFF	..... OFF
B OFF	..... OFF

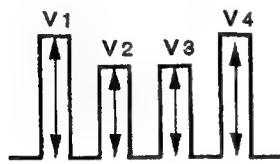


- 4) Connect an oscilloscope to ⑩pin of E1-1 connector on A board and ground.
- 5) Adjust **[3]** and **[6]** to the 2.40 ± 0.05 Vp-p level by selecting SPIX with **[1]** and **[4]**.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.
- 7) Return the following back to normal after adjustment.

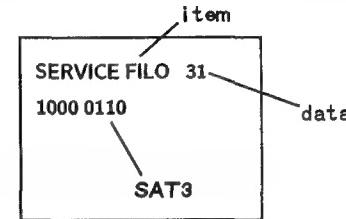
G OFF	..... ON
B OFF	..... ON
COLOR	..... CENTER
BRIGHTNESS	..... CENTER
TRINITONE	..... HIGH
PICTURE	..... 80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press **STANDARD** to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin② of E1-1 connector on A board and ground.
- 5) Adjust **③** and **④** to the V1=V4 and V2=V3 by select to SHUE and SCOL with **①** and **④**. Lower the data 4 steps from this point.



- 4) Make the data "00" by selecting FILO with **①** and **④** And then, send up the data gradually by pressing **⑥**. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to $\frac{D_1 + D_2}{2}$.
- 7) Write into the memory by pressing **MUTING** → then **ENTER**.

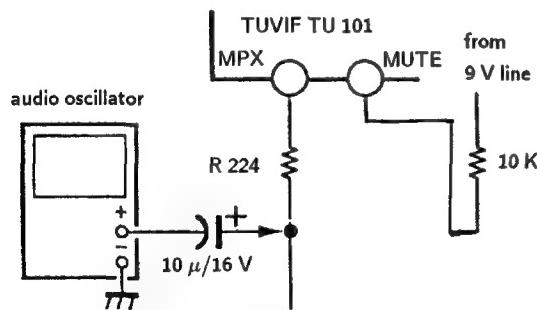


- 6) Write into the memory by pressing **MUTING** → then **ST VCO ADJUSTMENT (MPX, STEV)**
ENTER.

FILTER ADJUSTMENT (MPX, FILO)

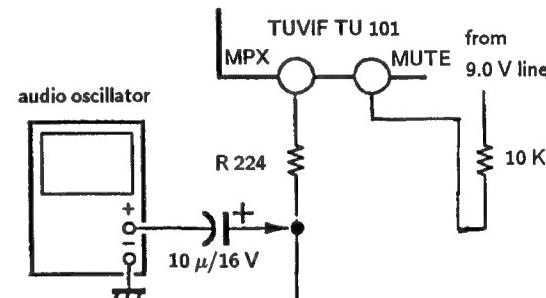
- 1) Set to Service Mode.
- 2) Select to **TEST** with **①** and **④**, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor (10μF/16V), set frequency to 62.936 kHz ± 0.1 kHz.

And then, through the 10kΩ resistor, feed 9.0V into the mute of TUVIF TU 101.



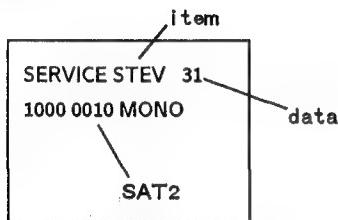
V 4 fh : SINE-WAVE 62.936 KHz ± 0.1 KHz
LEVEL 3.0 Vp-p

- 1) Set to Service Mode.
- 2) Select **TEST** with **①** and **④**, set the data to "1". And then press **MTS** to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R224 using electrolytic capacitor (10μF/16V) and apply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using 10kΩ connect to 9.0 V line.



Vfh : SINE-WAVE 15.734 KHz ± 0.1 KHz
LEVEL 0.28 Vp-p

- 5) Select STEV with **[1]** and **[4]**, set the data to "00" with **[6]**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to $(D1+D2)/2$.
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.



MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with **[1]** and **[4]**, set the data to "0" with **[6]**. And then press **MTS** to MONO.
- 3) Select MPX with **[1]** and **[4]**, set the data to "8" with **[3]** and **[6]**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with **[1]** and **[4]**, set the data to "8" with **[3]** and **[6]**.
- 3) Write into the memory by pressing **MUTING** → then **ENTER**.

SAP VCO f₀ ADJUSTMENT (SAPV)

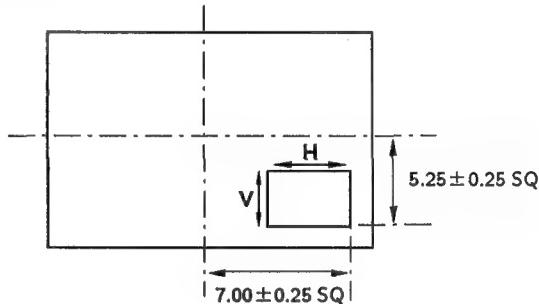
- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with **[1]** and **[4]**, set the data to "0". And then, press **MTS** to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with **[1]** and **[4]**, adjust **[3]** and **[6]** so that $V2 = V1 \pm 0.03$ VDC.
- 7) Write the memory by **MUTING** → **ENTER**.

SEPARATION ADJUSTMENT (SEP)

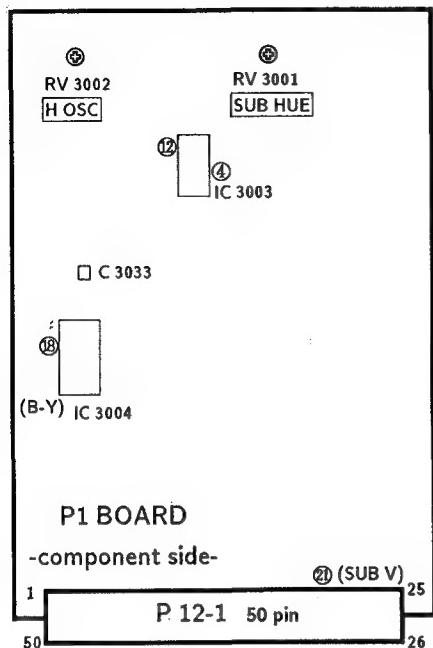
- 1) Set to Service Mode.
- 2) Press **MTS** to MAIN and receive a monoral broadcast signal.
- In the next step, receive a stereo broadcast signal.
- 3) Select SEP and VD with **[1]** and **[4]**, adjust **[3]** and **[6]** so that a clear stereo sound is effected.

SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- 3) Press PIP to display a sub picture.
(RIGHT LOWER Position)
- 4) Select PHPO, PVPO with **[1]** and **[4]**.
- 5) Adjust **[3]** and **[6]** to the standard as shown below.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.

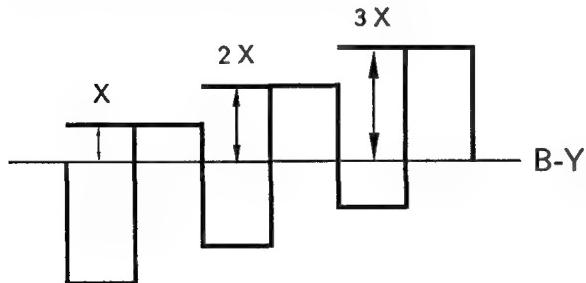


5-3. P1 BOARD ADJUSTMENTS



SUB HUE ADJUSTMENT (RV 3001)

- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 ($0\ \Omega$) and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 Vpp to Pin ⑩ (SUB V) of P 12-1 and make adjustment by turning RV 3001.

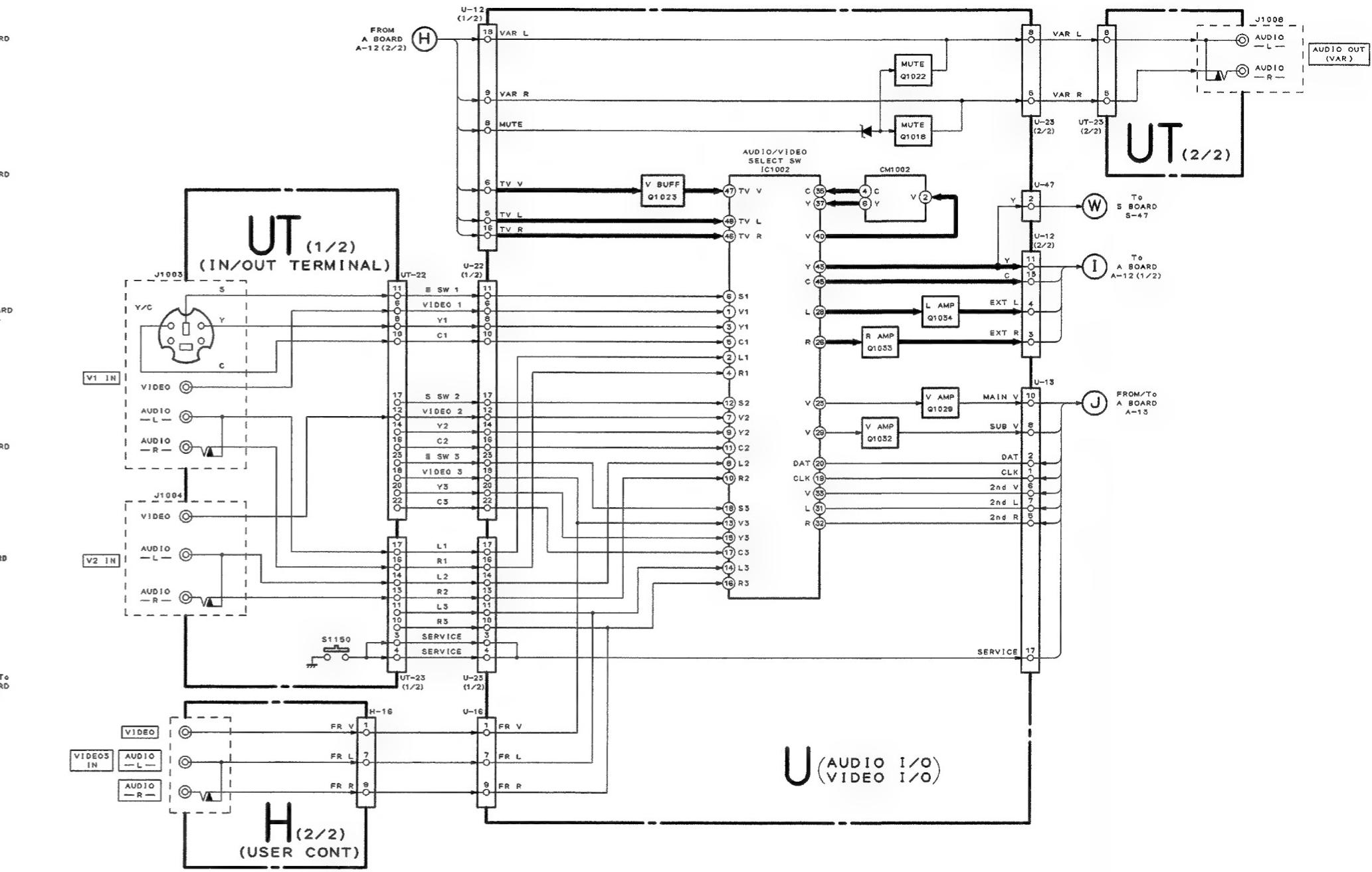
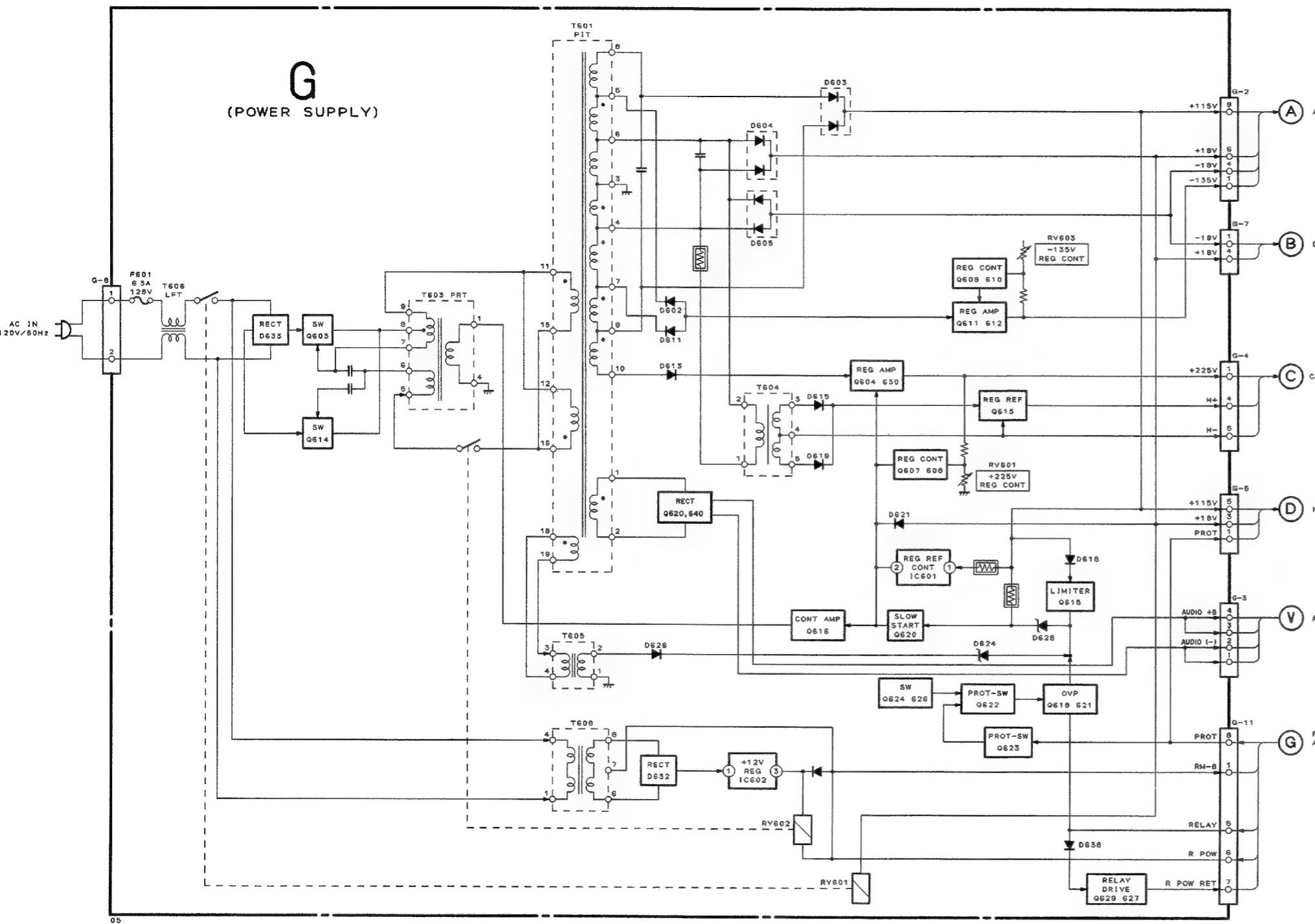


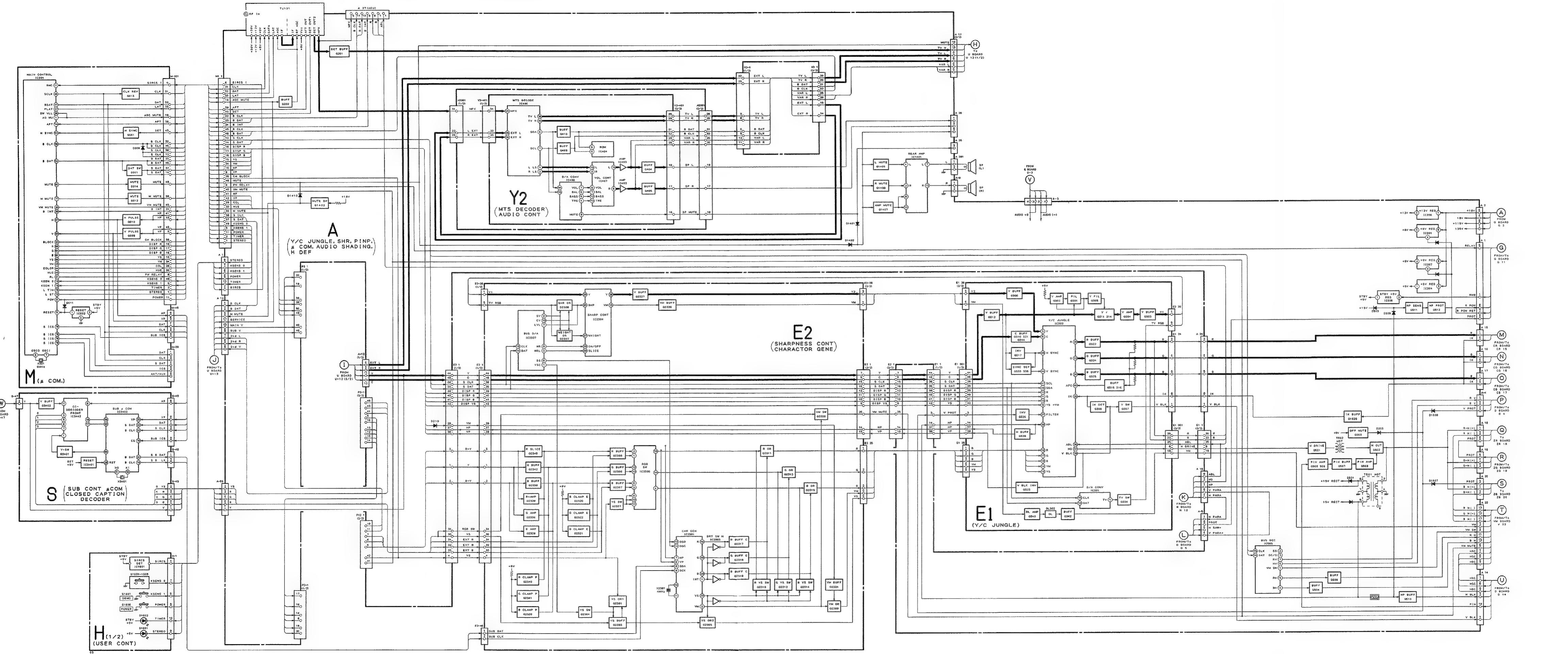
H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

- 1) Connect a frequency counter to Pin ④ (H OUT) of IC 3003.
- 2) Connect Pin ⑫ of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz \pm 50 Hz at Pin ④ of IC 3003.
(or until the frequency comes to a standstill.)

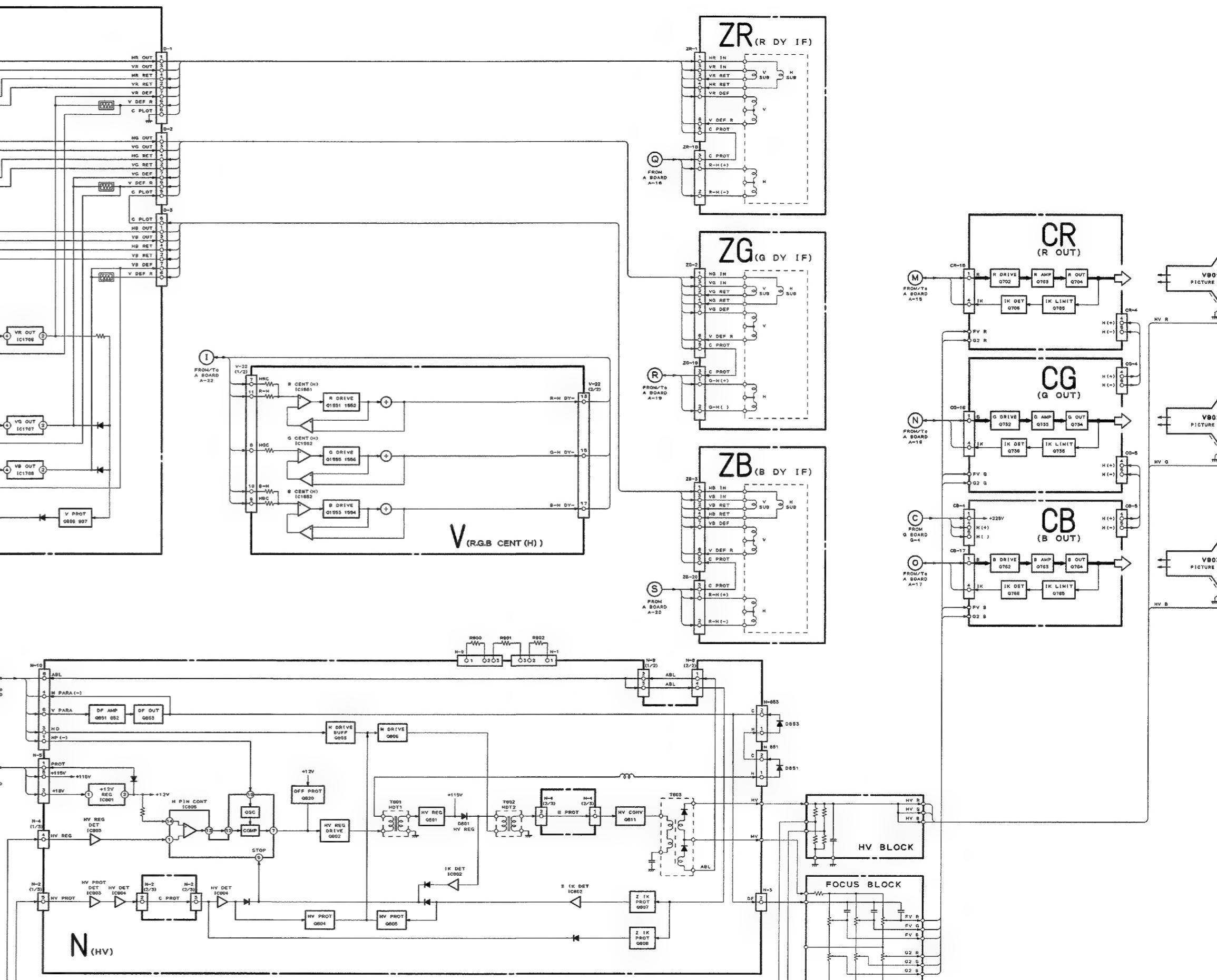
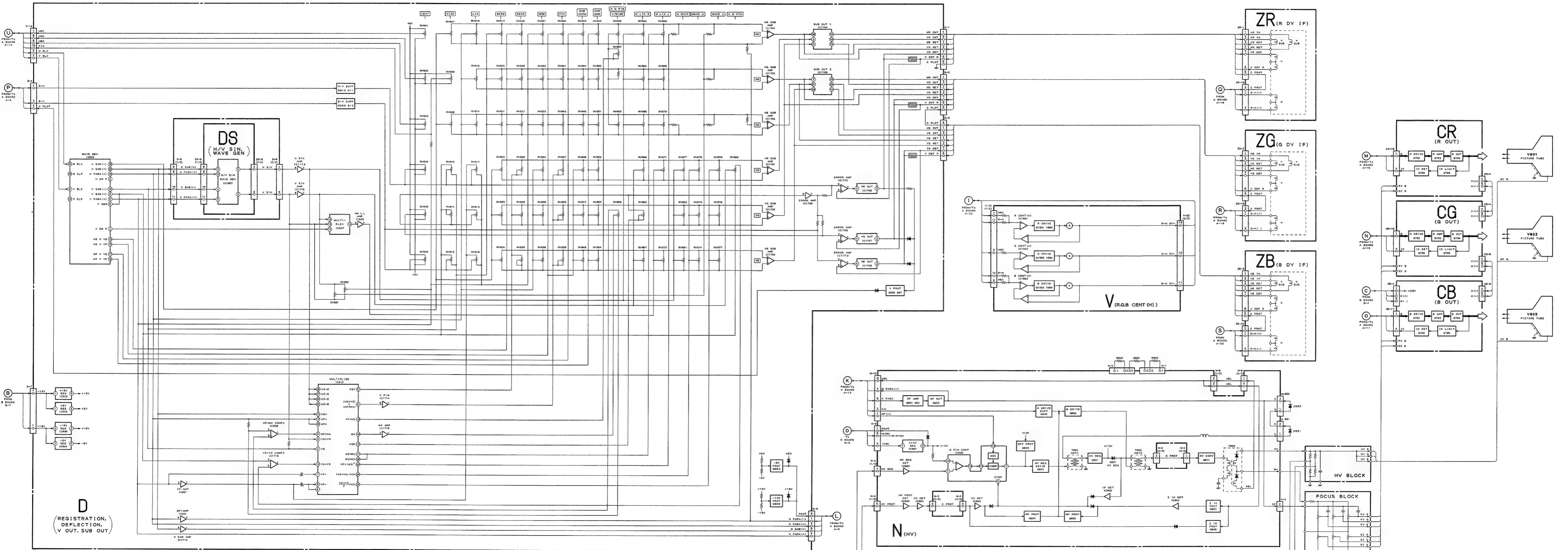
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAMS (1)

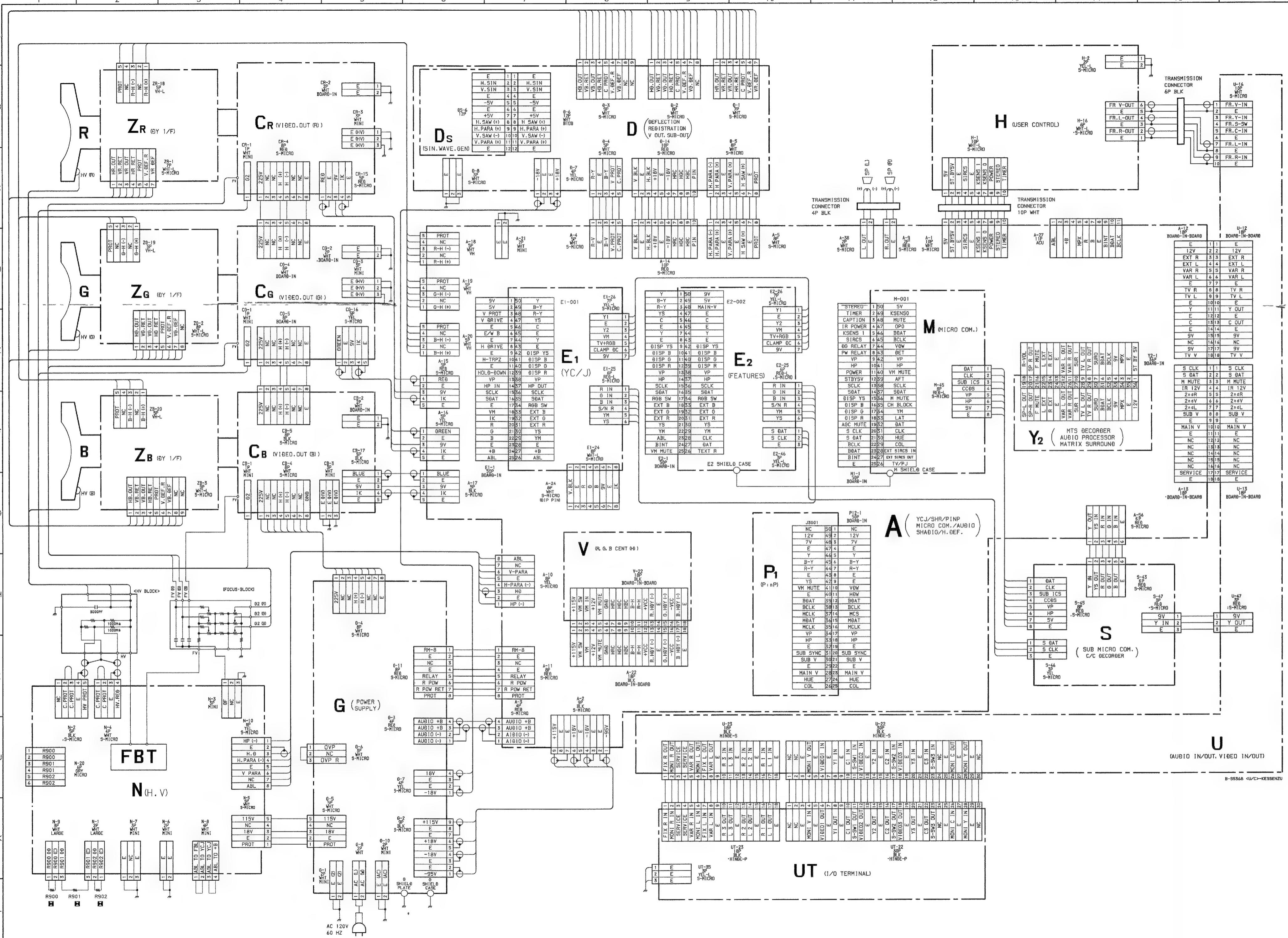




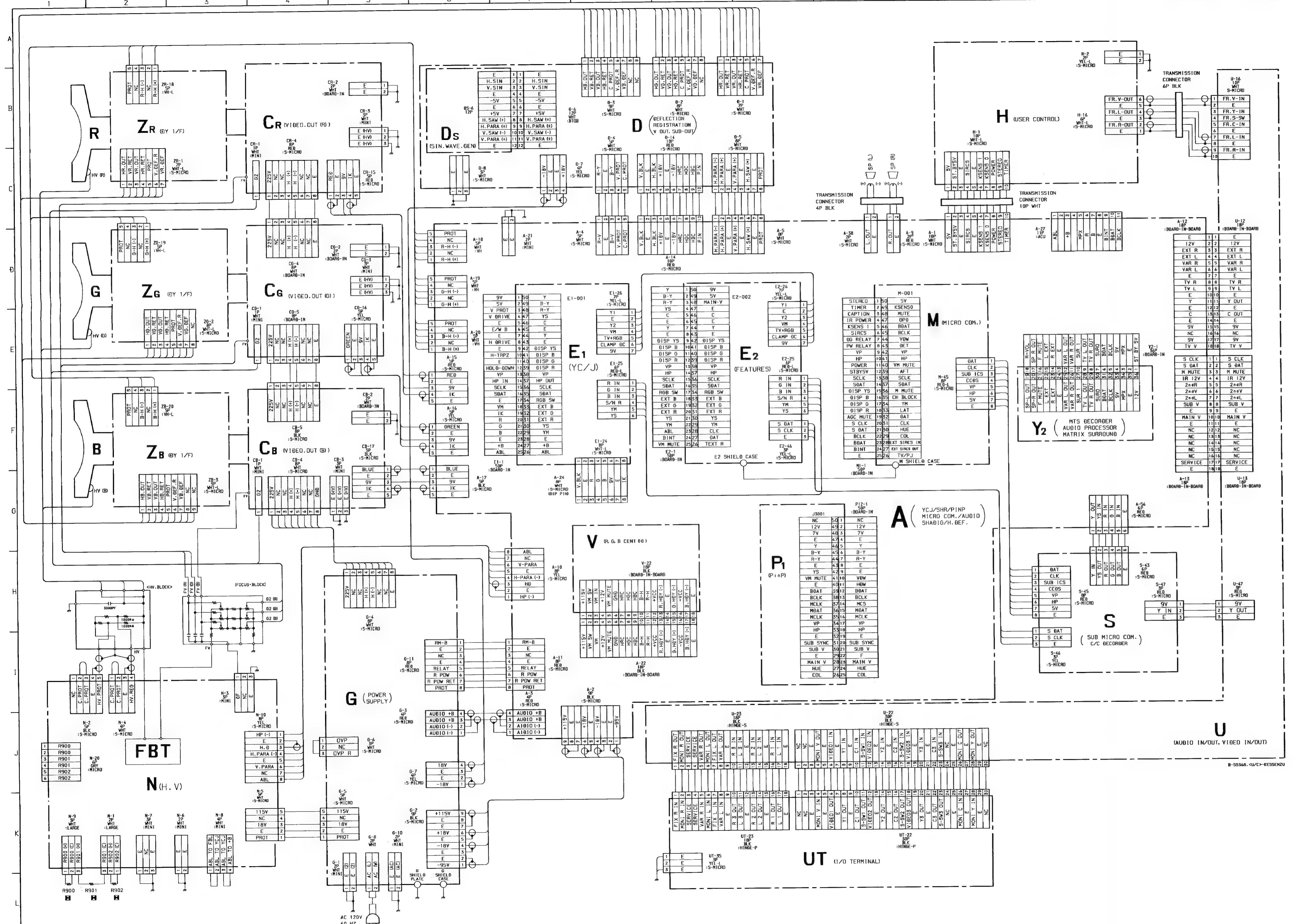
BLOCK DIAGRAMS (3)



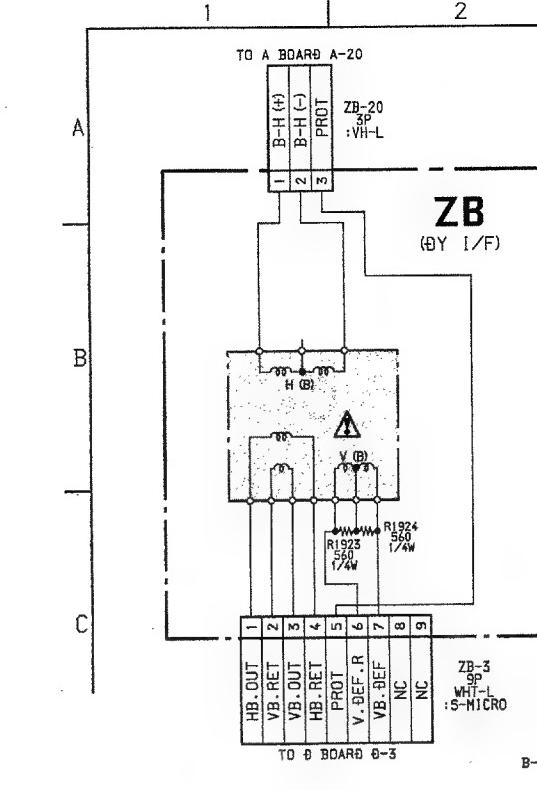
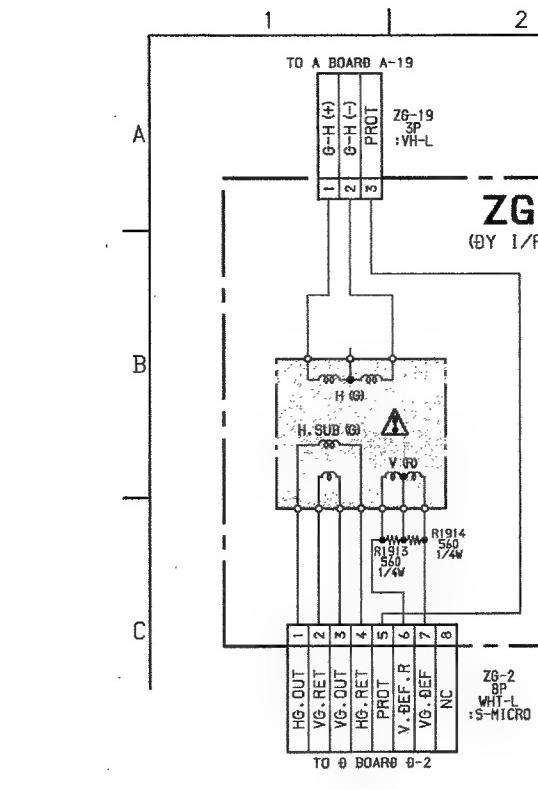
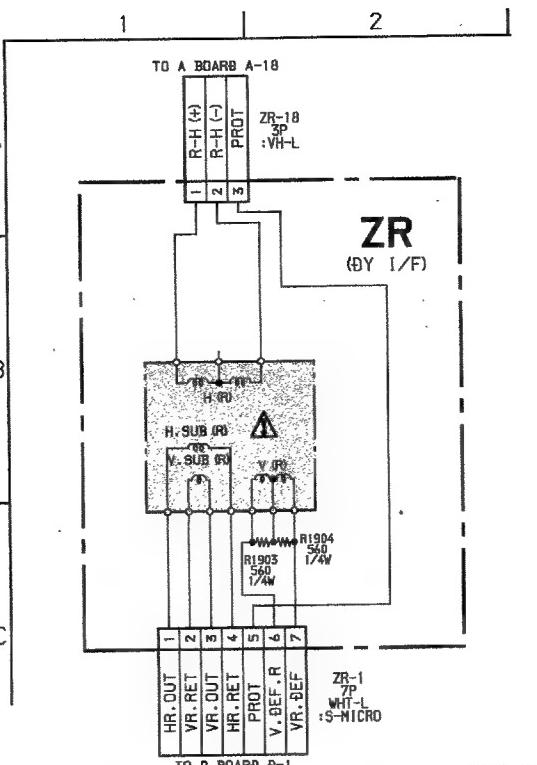
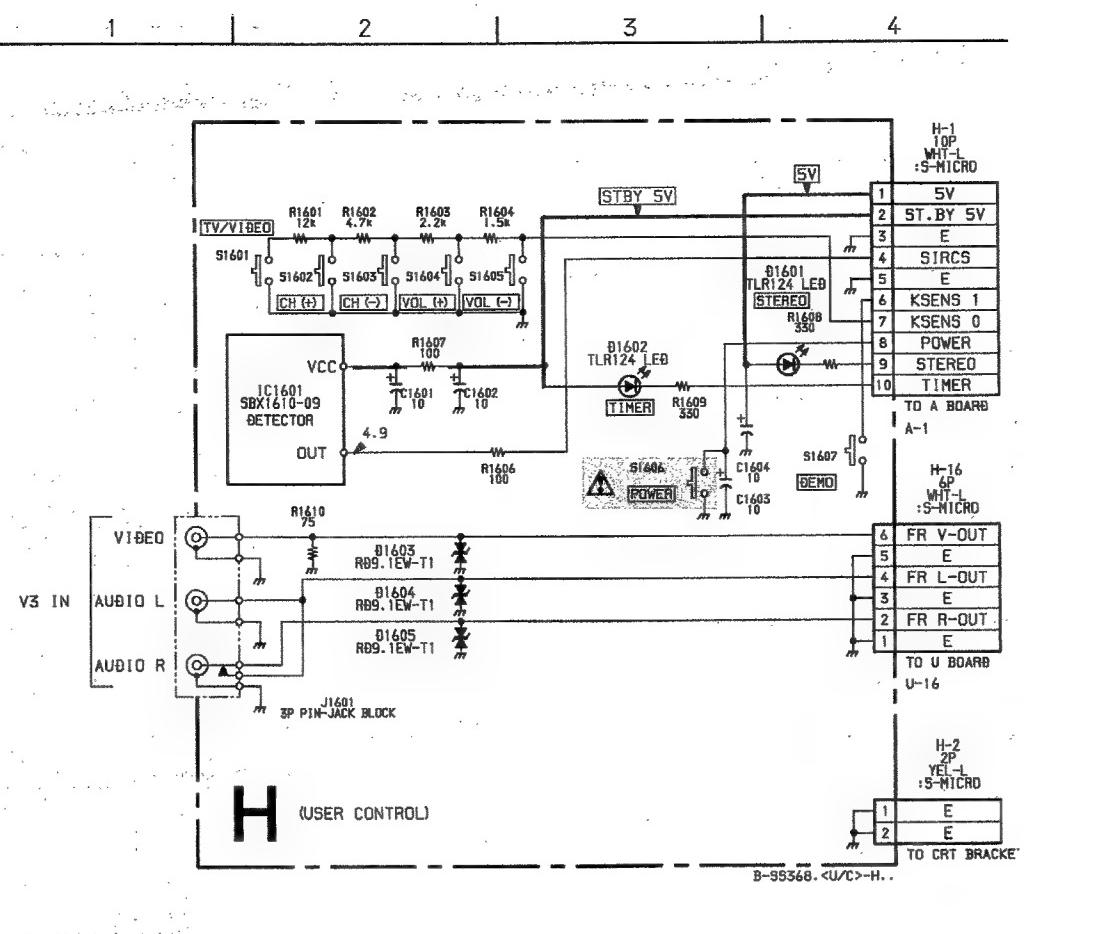
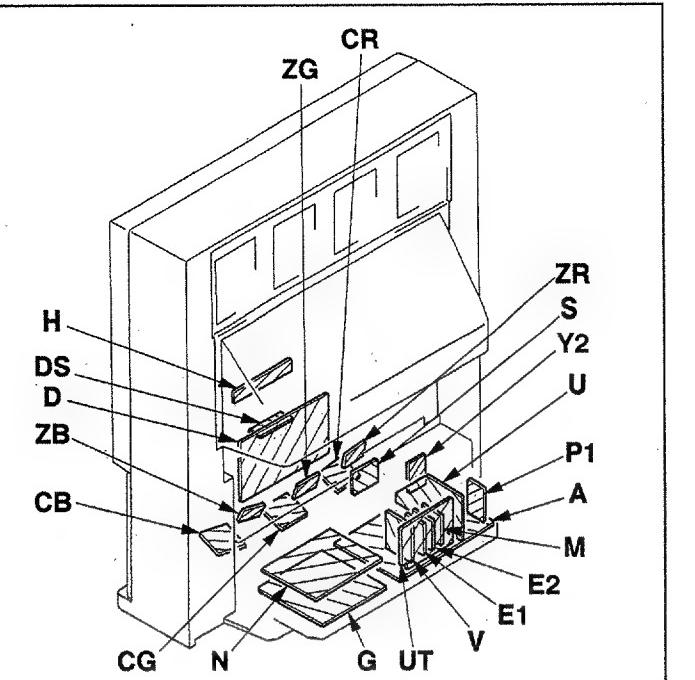
6-2. FRAME SCHEMATIC DIAGRAM



6-2. FRAME SCHEMATIC DIAGRAM



6-3. CIRCUIT BOARDS LOCATION



6-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Reference Information**
- All capacitors are in μF unless otherwise noted. μF : μF 50 μW or less are not indicated except for electrolytic and tantalums.
 - All resistors are in ohms. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{K}\Omega$
 - Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W
: nonflammable resistor.
: fusible resistor.
: internal component.
: panel designation, or adjustment for repair.
All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
: earth-chassis.
The components identified by **█** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When replacing components identified by **█**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **█** and repeat the adjustment until the specified value is achieved. (Refer to R652, R652, R600, R901, and R902 adjustment on Page 36-39.)

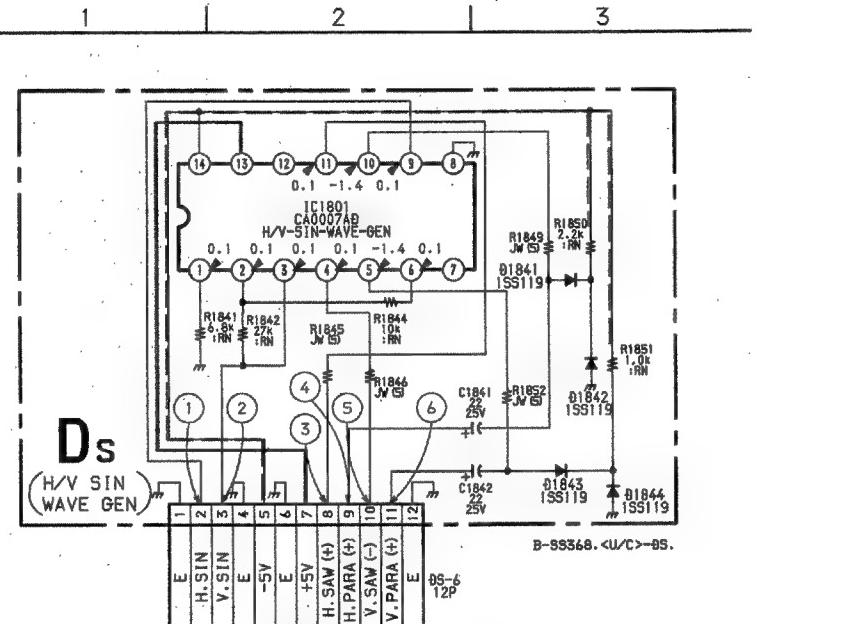
When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (█)	Adjustment (█)
HV Block IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R838, R864, R865, R886, R902	N Board HV Regulator (R902)
HV Block IC808, IC804, D804, D808, D809, C809, C810, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901	N Board HV Hold down (R900, R901)
Q818, Q821, D628, C634, R639, R649, R652, R655, R656	G Board OVP (R652)
① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826 C827, C831, R810, R843, R844 R847, R848, R849, R850, R851, R852, R853, R854, R881 ② IC804, Q804, Q808, D808, D809 C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881	N Board Beam current protector ① R852 ② R852

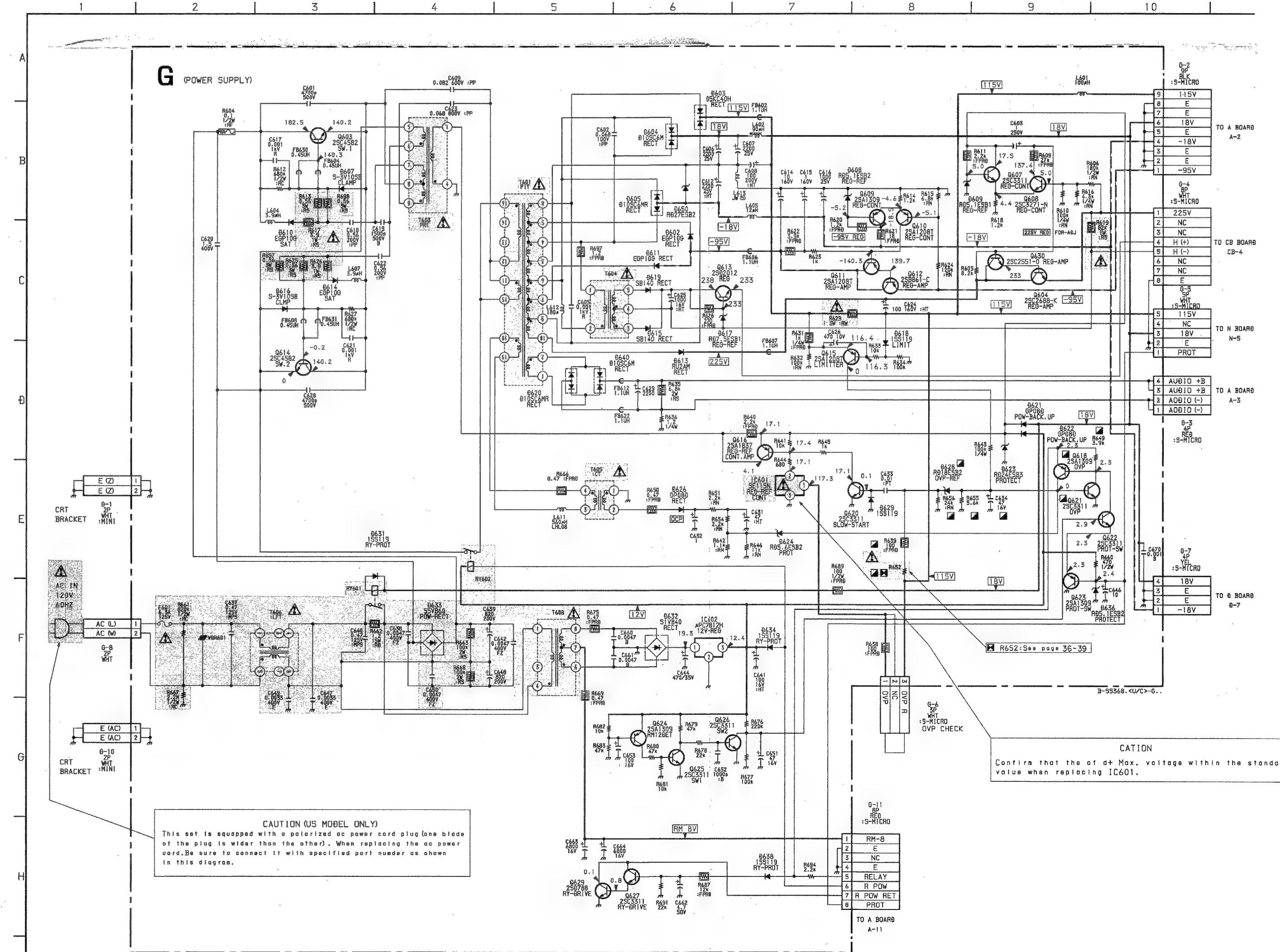
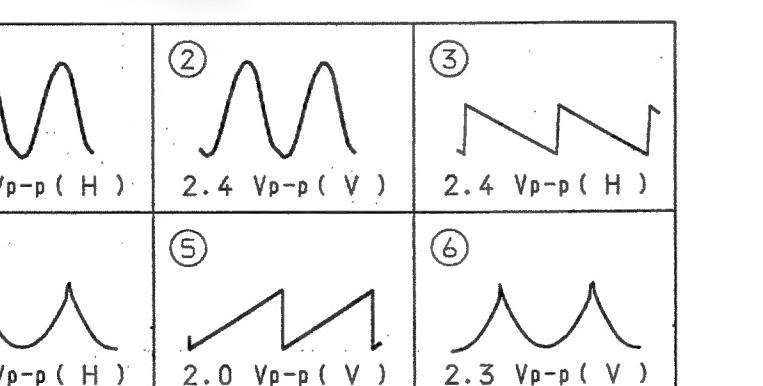
Note: The symbol **█** display is on the component side.
The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.
The symbol **█** indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés par un trame et une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole **█** indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme maque.



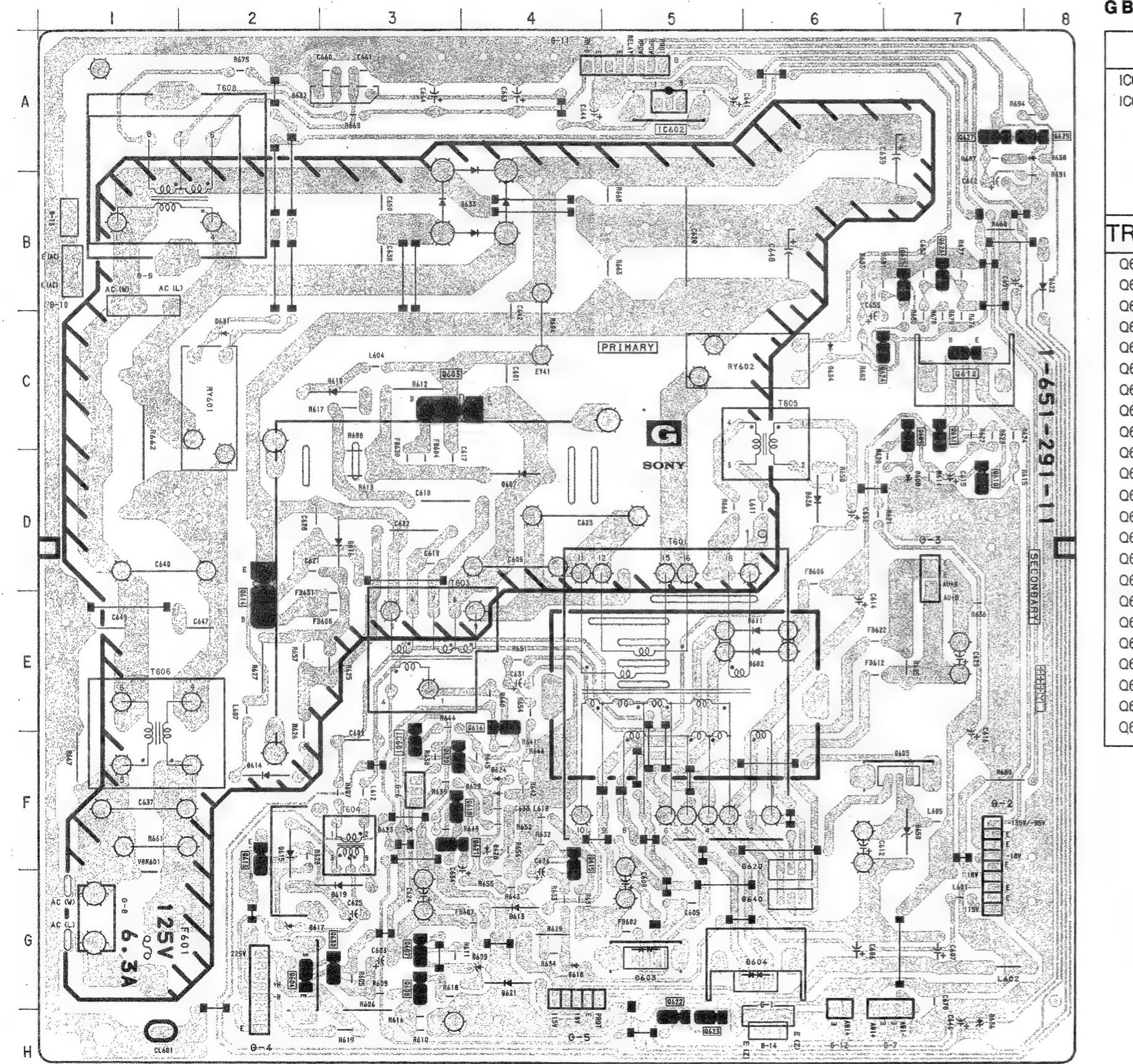
DS BOARD WAVEFORMS



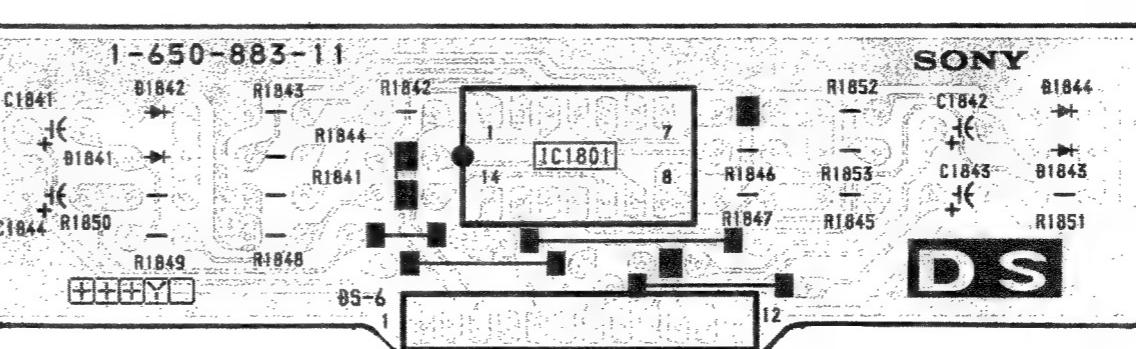
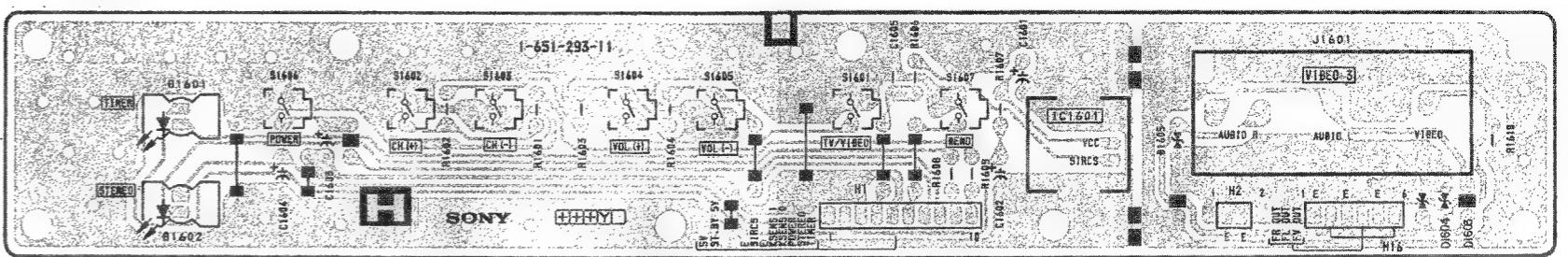
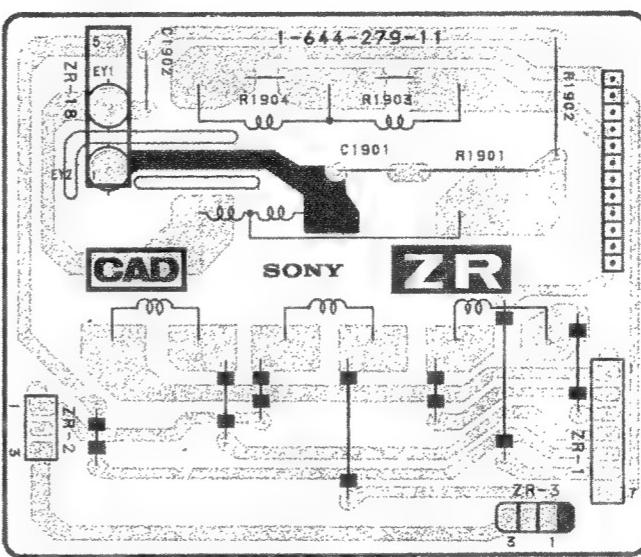
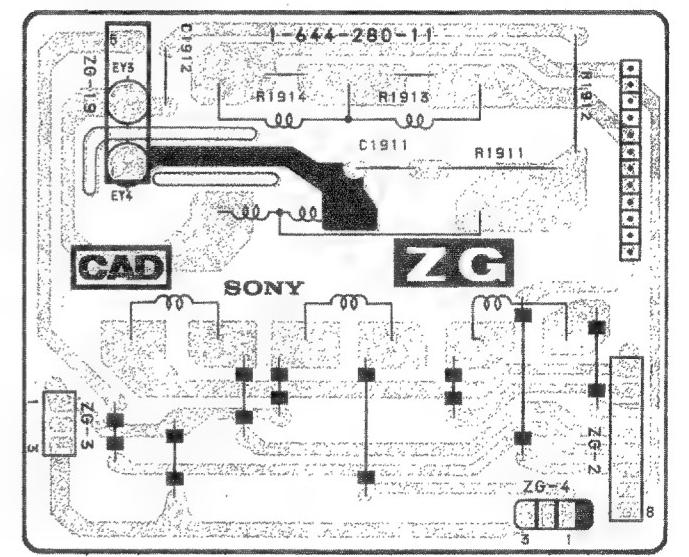
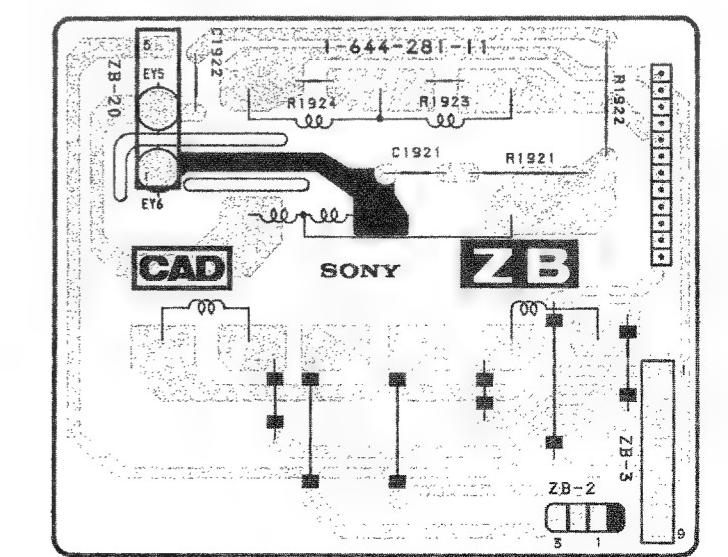
Schematic diagrams

DS G H

ZB ZG ZR boards

G [POWER SUPPLY]**H** [USER CONTROL]**ZR****ZG****ZB****DS** [H/V SIN,
WAVE GEN.]**- G BOARD -****- G BOARD -**

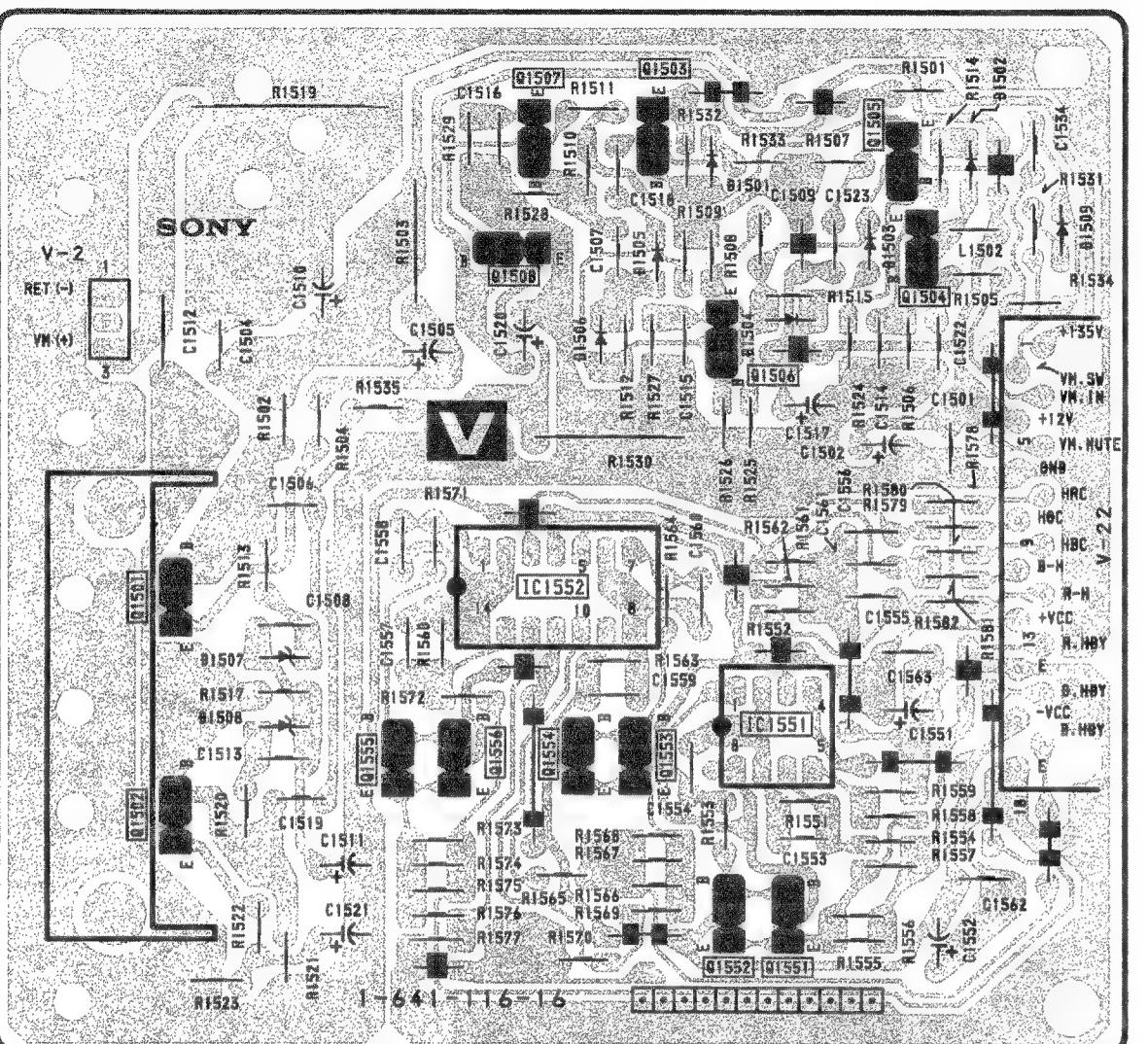
IC	DIODE
IC601	F - 3
IC602	A - 5
	D602 E - 6
	D603 G - 5
	D604 G - 6
	D605 F - 7
	D607 D - 4
	D608 D - 7
	D609 G - 4
	D610 C - 3
	D611 E - 6
	D613 G - 4
	D614 F - 2
	D615 F - 3
	D616 D - 3
	D617 G - 2
	D618 G - 4
	D619 G - 3
	D620 F - 6
	D621 G - 4
	D622 B - 7
	D623 F - 3
	D624 F - 4
	D625 D - 6
	D626 F - 3
	D628 F - 4
	D629 F - 4
	D631 C - 2
	D632 A - 3
	D633 B - 3
	D634 C - 6
	D636 G - 7
	D638 A - 7
	D640 G - 6
	D650 F - 7

- DS BOARD -**- H BOARD -****- ZR BOARD -****- ZG BOARD -****- ZB BOARD -**

V

R. G. B CENT (H)] A YCJ/SRH/P IN P,
MICRO COM./AUDIO SHADING/H. DEF

- V BOARD -



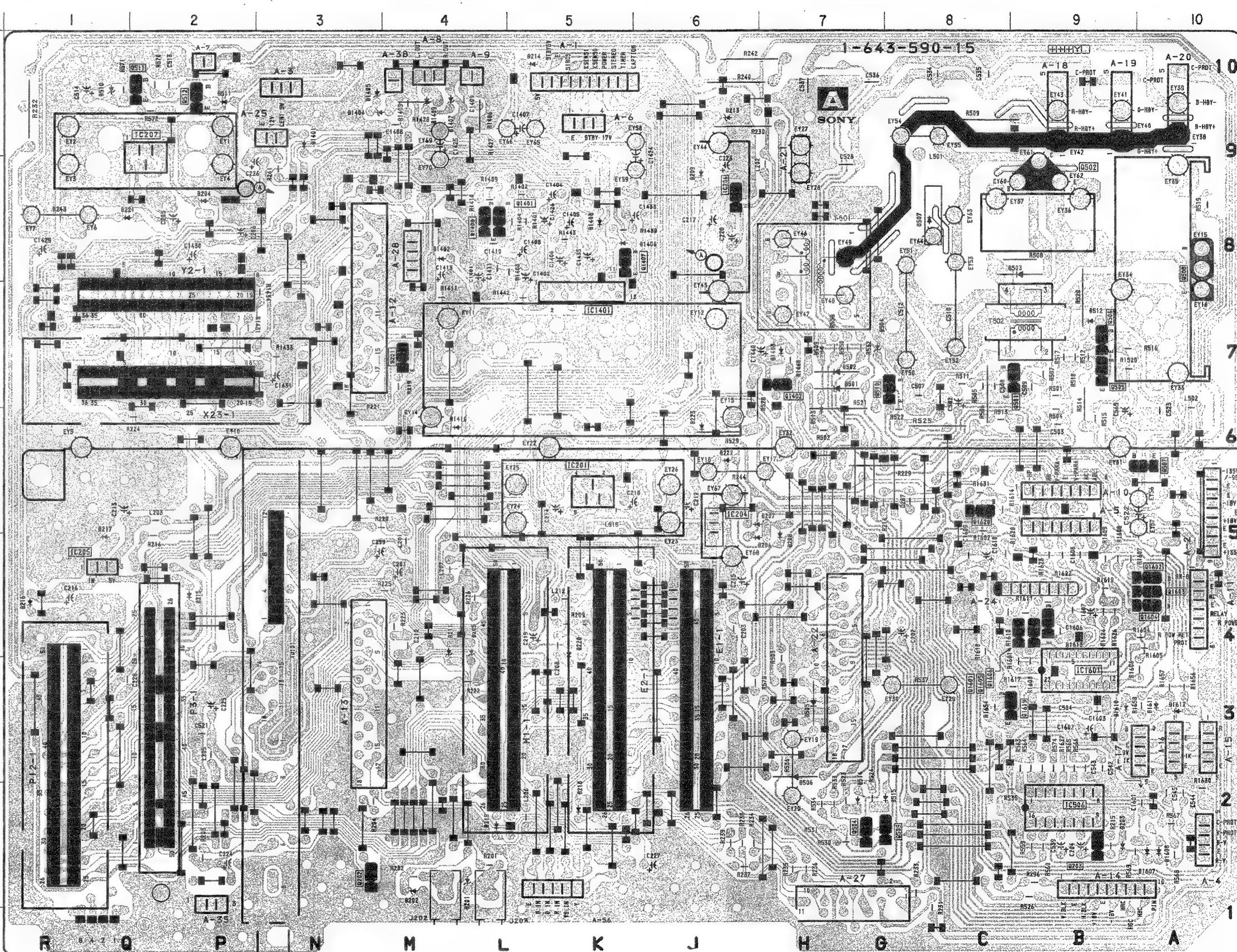
BOARD

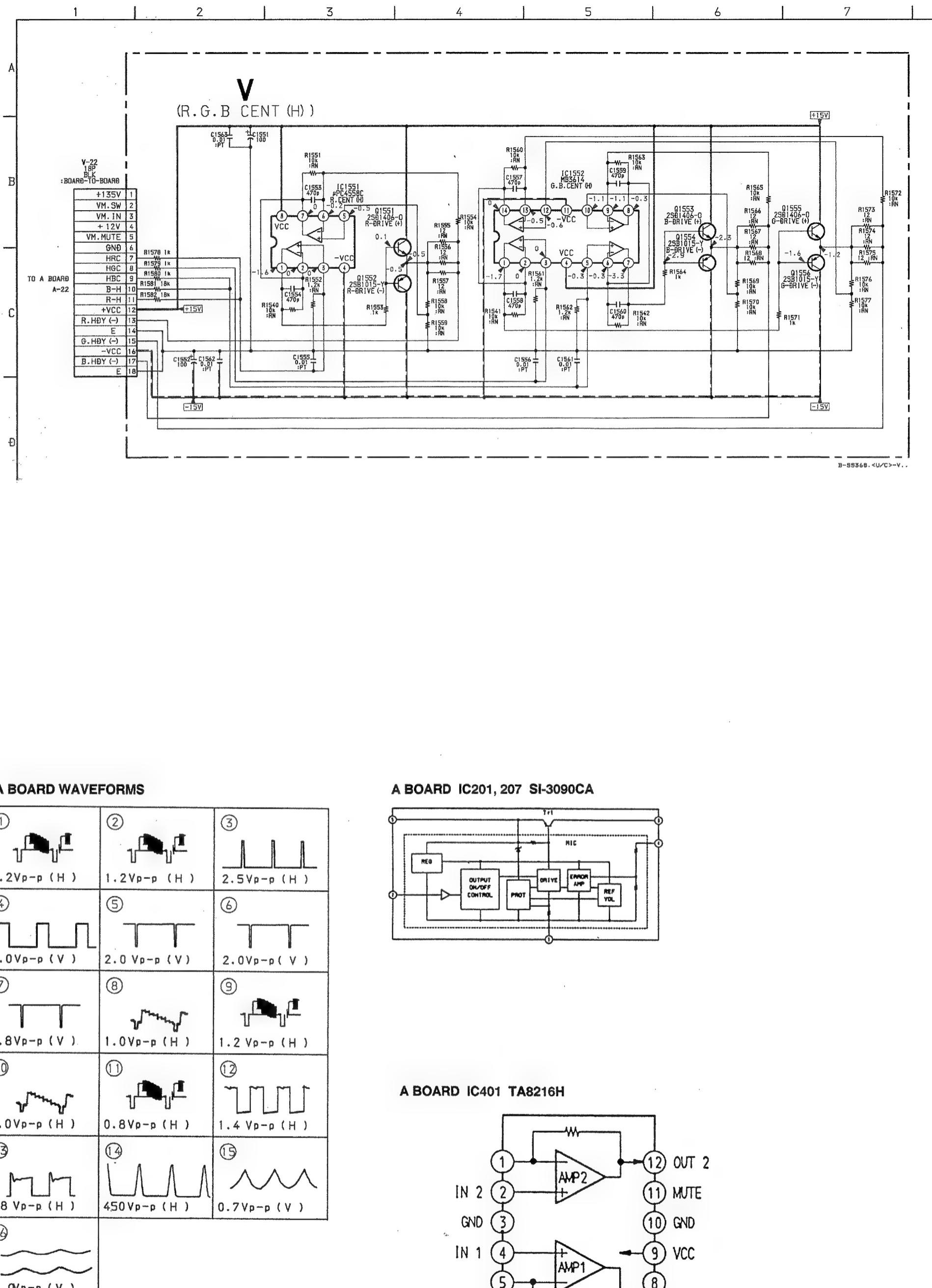
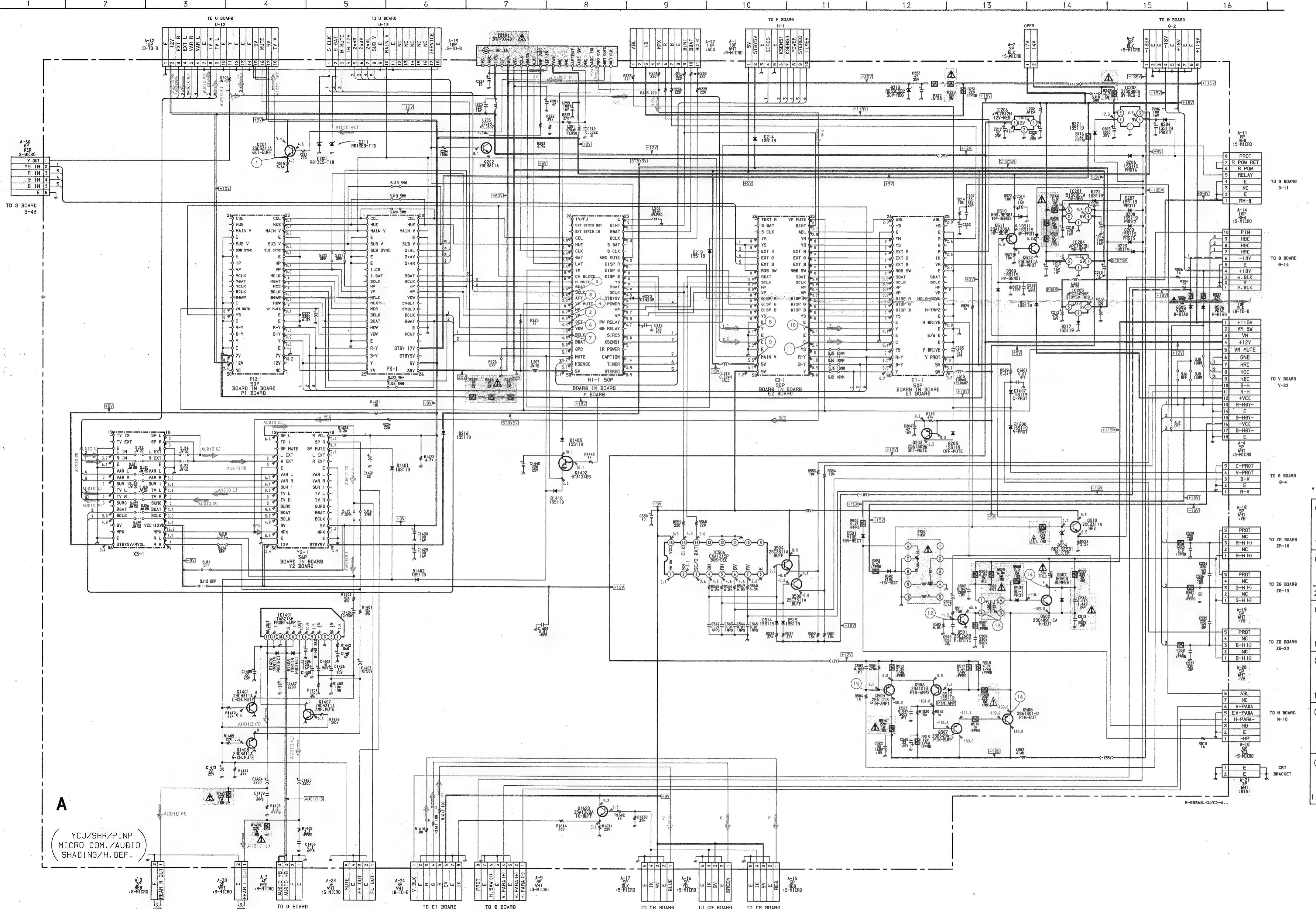
IC	DIODE
C201	D - 5
C204	D - 6
C205	E - 1
C206	B - 6
C207	A - 2
C506	G - 9
C1401	C - 5
C1601	F - 9
TRANSISTOR	
201	C - 4
202	G - 3
203	G - 9
501	C - 9
502	B - 9
504	G - 7
505	C - 9
506	C - 9
507	D - 10
508	B - 10
509	G - 8
510	C - 8
511	A - 2
512	A - 2
1401	B - 2
1402	C - 7
1407	B - 5
1408	B - 4
1601	E - 9
1602	E - 10
1603	E - 10
1604	E - 10
1605	E - 9
1606	E - 9
1620	D - 8
D203	G - 9
D204	B - 2
D205	E - 4
D206	D - 7
D207	D - 7
D208	E - 7
D209	B - 6
D211	E - 4
D213	A - 6
D214	A - 5
D216	E - 1
D217	E - 1
D219	G - 5
D220	E - 5
D221	B - 1
D222	D - 6
D223	D - 6
D501	C - 7
D502	C - 7
D503	B - 9
D504	C - 7
D505	F - 7
D506	F - 7
D507	B - 8
D509	C - 7
D510	A - 1
D511	A - 1
D512	C - 9
D513	D - 7
D514	G - 7
D515	G - 8
D1401	A - 3
D1402	B - 4
D1403	C - 7
D1406	B - 5
D1408	B - 5
D1410	D - 4
D1607	G - 10
D1608	G - 10

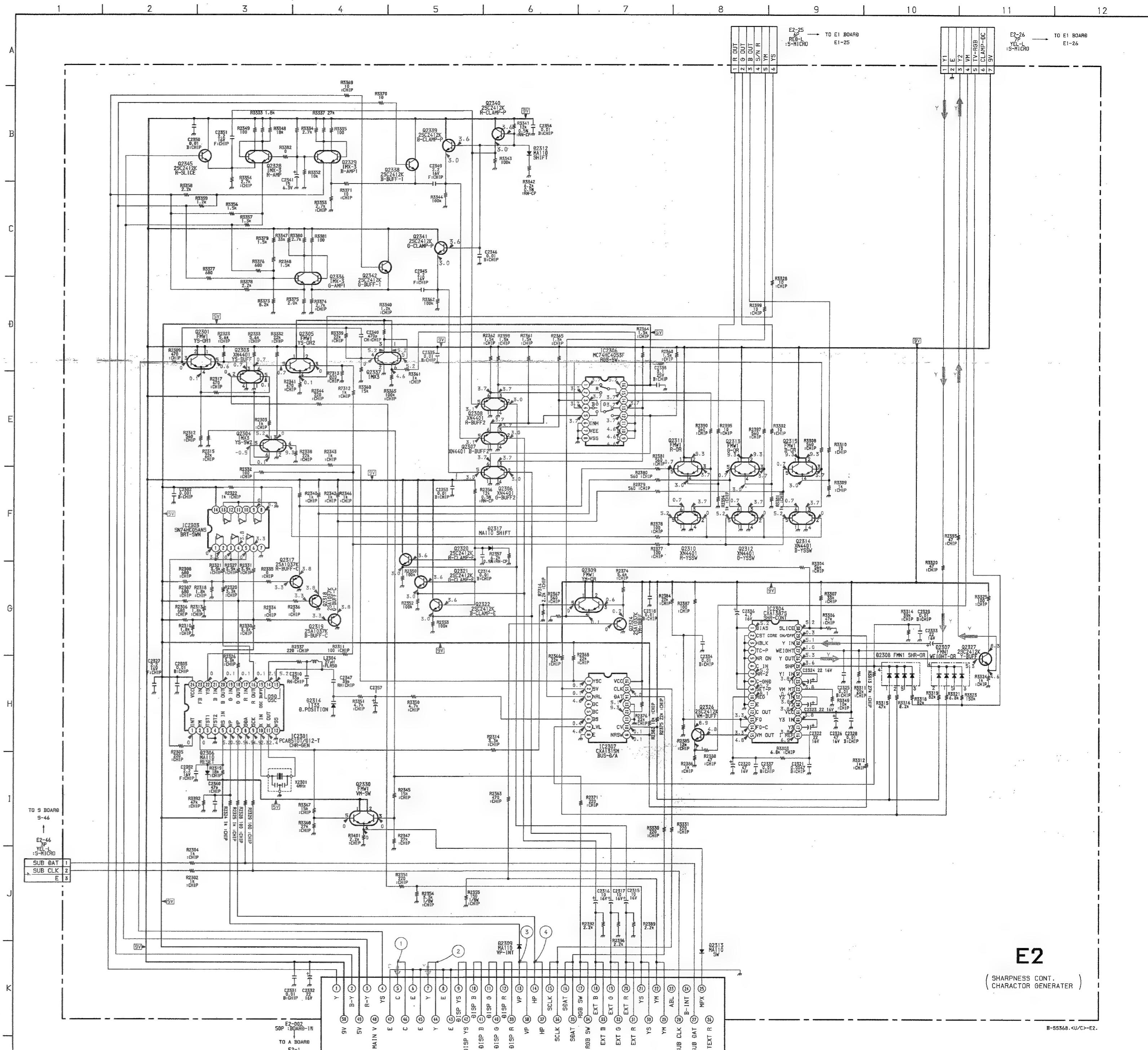
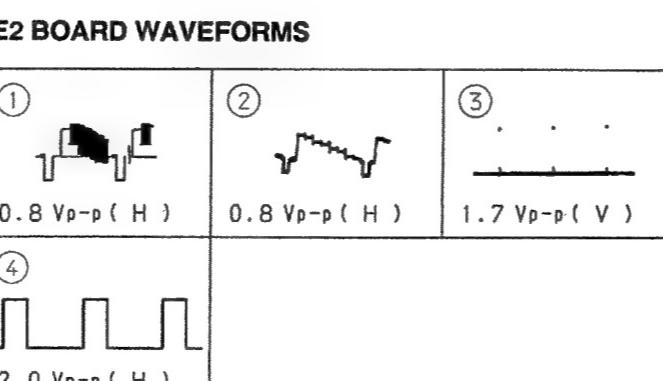
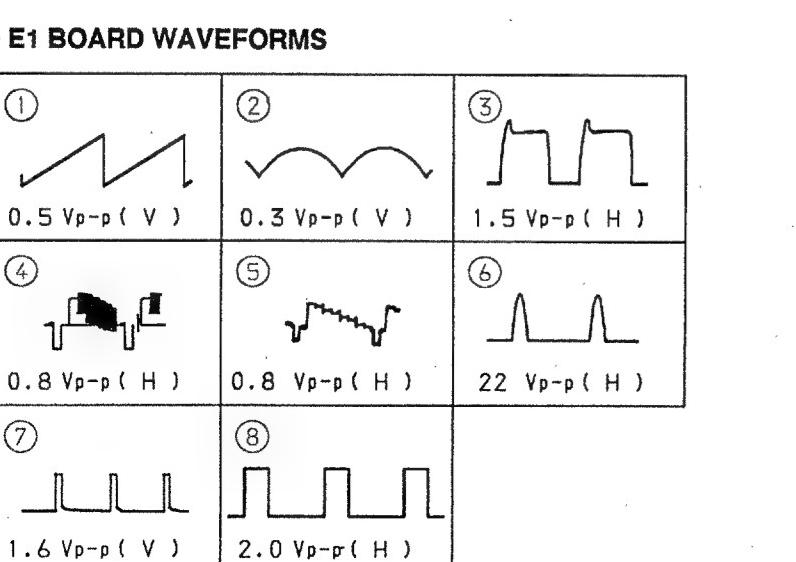
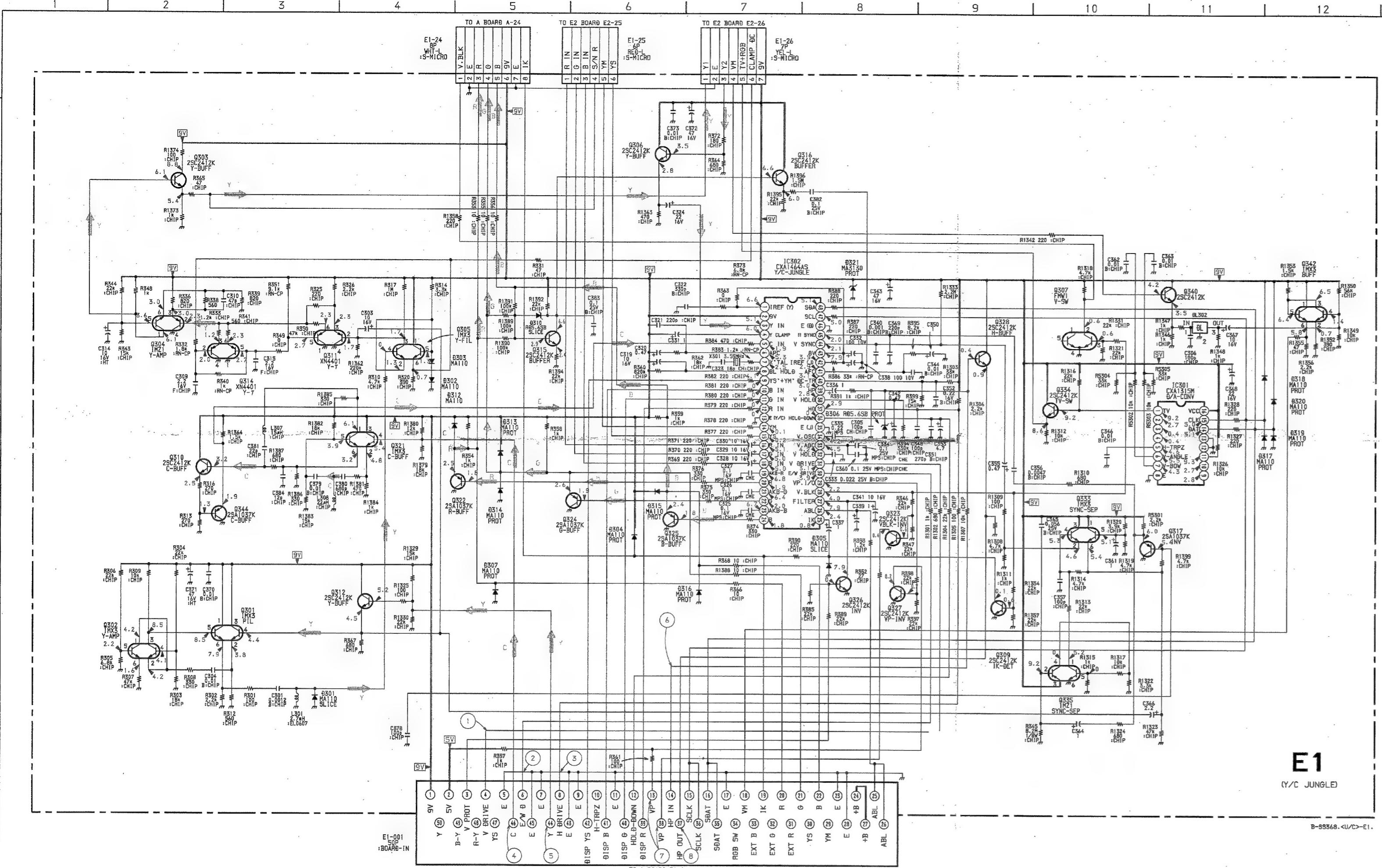
TE

The circuit indicated as left contains high voltage of over 100 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

BOARD -







ESS CONT.
TOR GENERATOR)

E1

[Y/C JUNGLE]

E2SHARPNESS CONT.,
CHARACTOR GENERATOR

Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

- E1 BOARD - <Component Side>

E1 BOARD

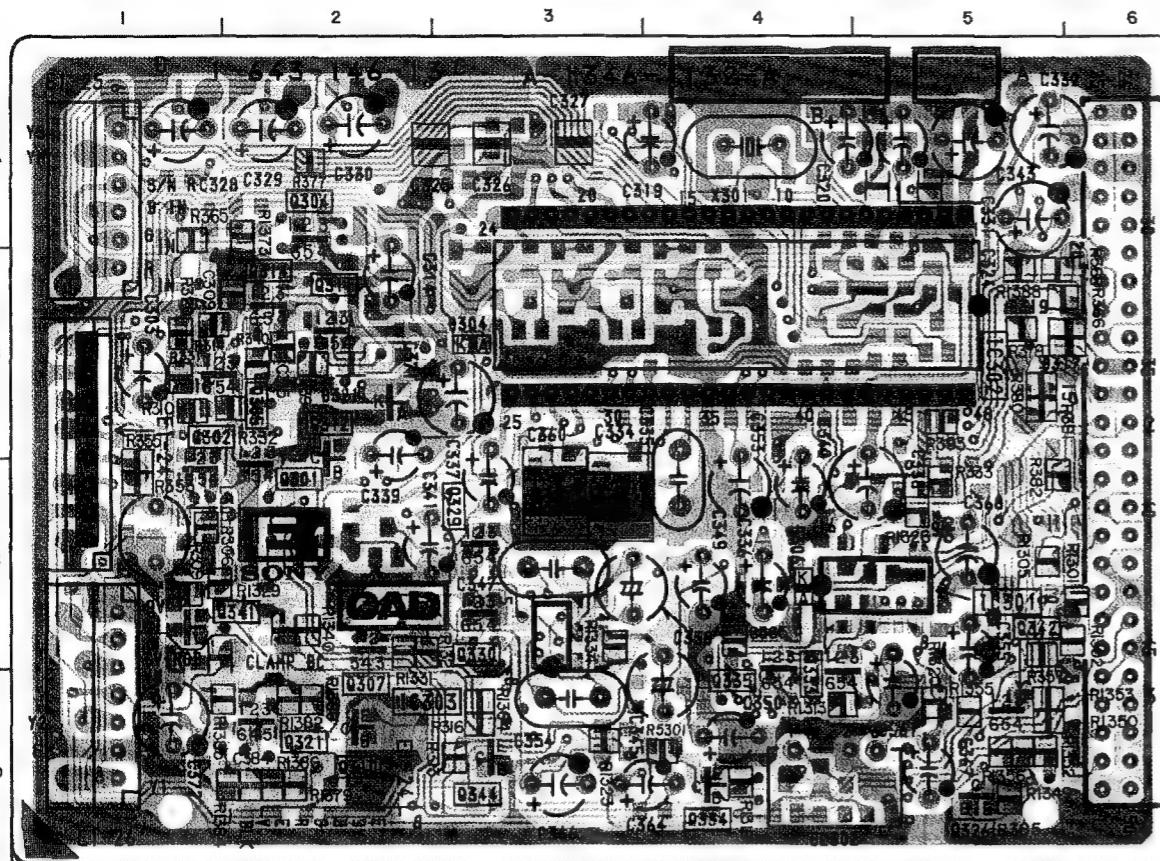
IC
IC301 C-5
IC302 B-4, G-4

TRANSISTOR

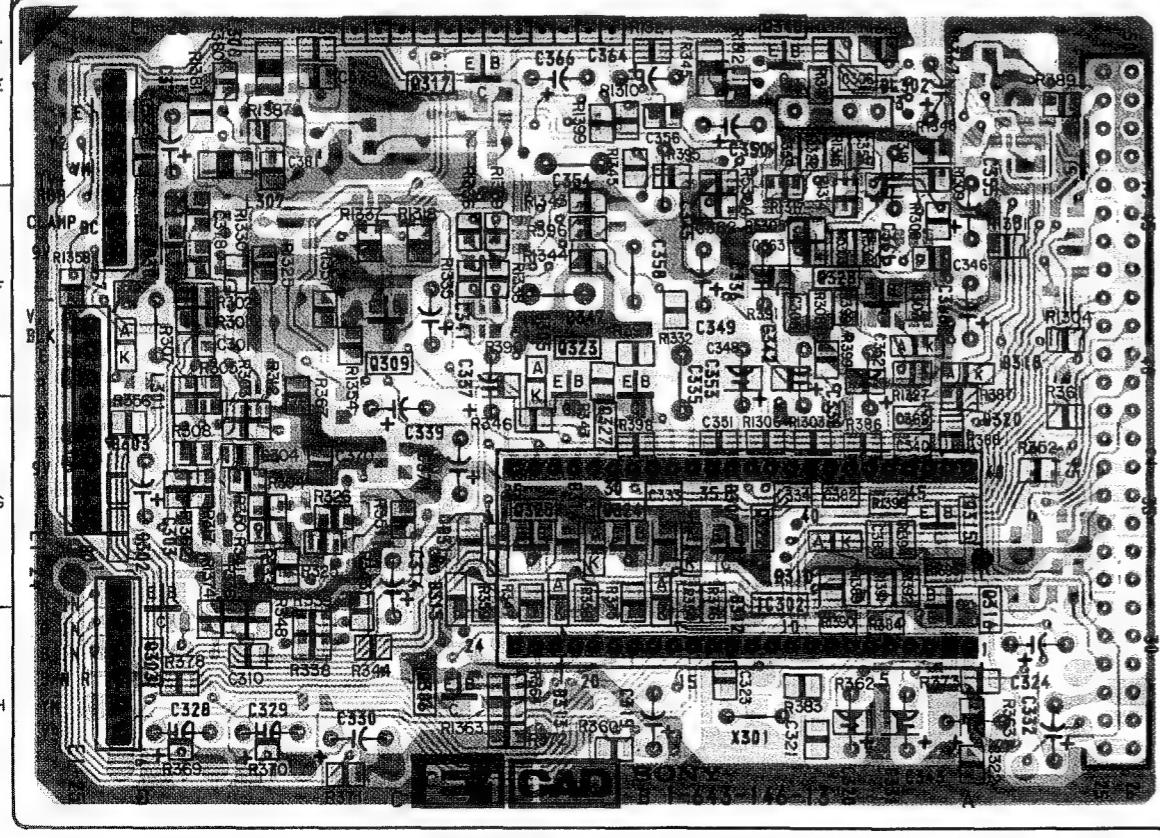
Q301 C-2
Q302 C-1
Q303 G-1
Q304 A-2
Q305 B-1
Q306 H-3
Q307 C-2
Q309 F-2
Q310 D-2
Q311 B-2
Q312 B-2
Q314 B-2
Q315 G-5
Q316 G-5
Q317 E-3
Q321 U-2
Q322 G-4
Q323 F-3
Q324 G-3
Q325 G-3
Q326 D-5
Q327 G-3
Q328 F-5
Q333 D-4
Q334 D-4
Q335 D-4
Q340 E-4
Q342 D-5
Q344 D-3

DIODE

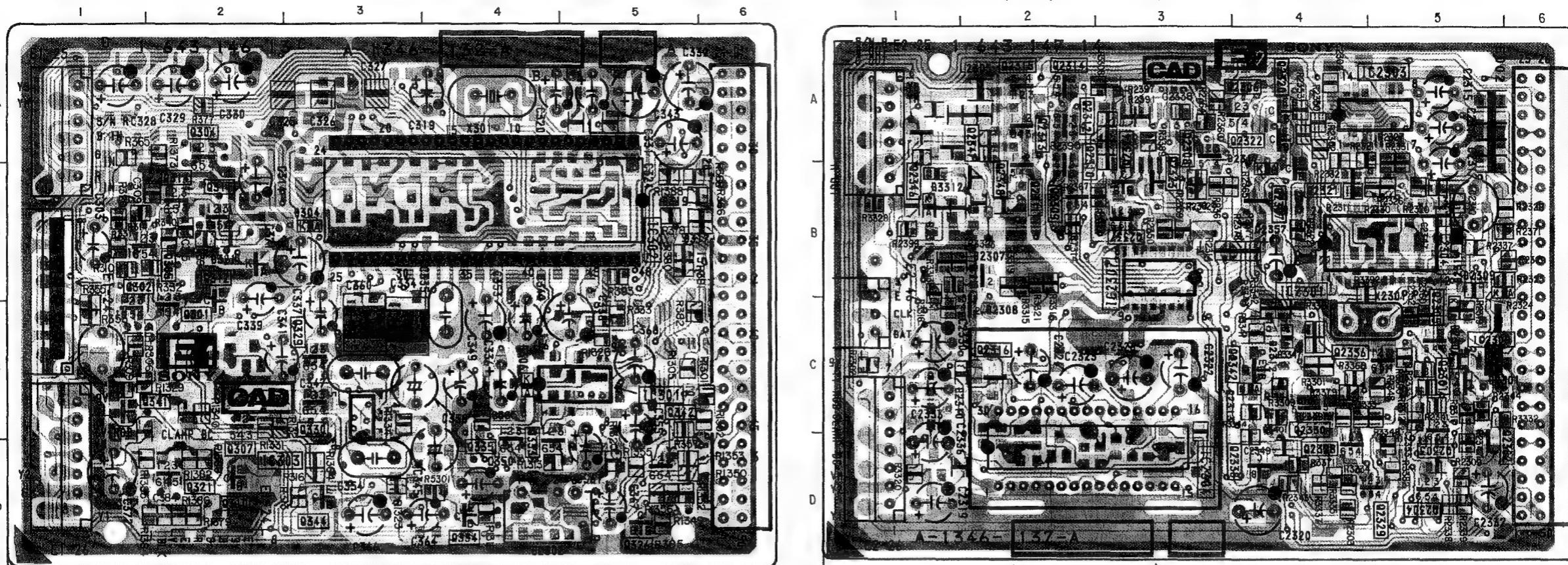
D301 F-1
D302 G-1
D303 G-1
D304 B-3
D305 F-3
D306 C-4
D307 G-4
D310 G-4
D312 G-4
D313 G-3
D314 G-3
D315 G-2
D316 G-3
D317 B-5
D318 F-5
D319 B-5
D320 G-5
D321 B-2



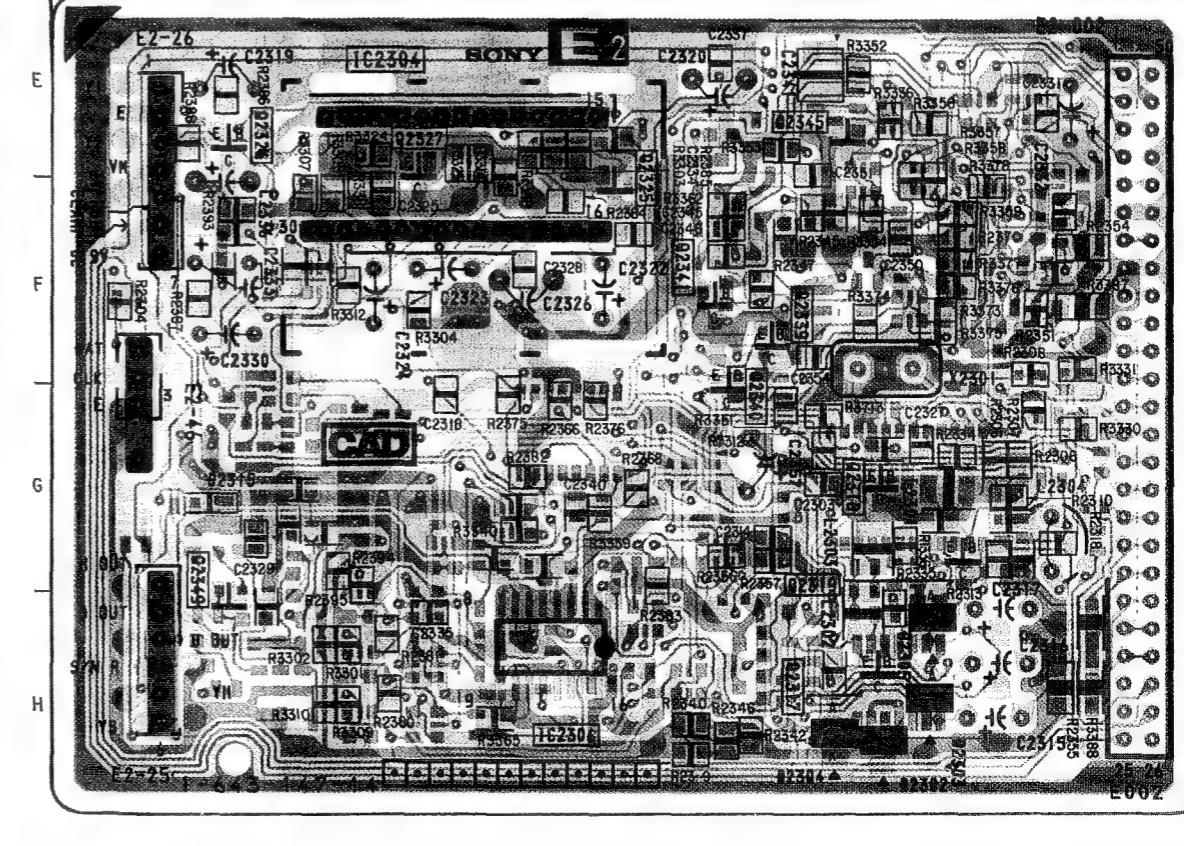
<Conductor Side>



- E2 BOARD - <Component Side>

E2 BOARD

<Conductor Side>



Note :

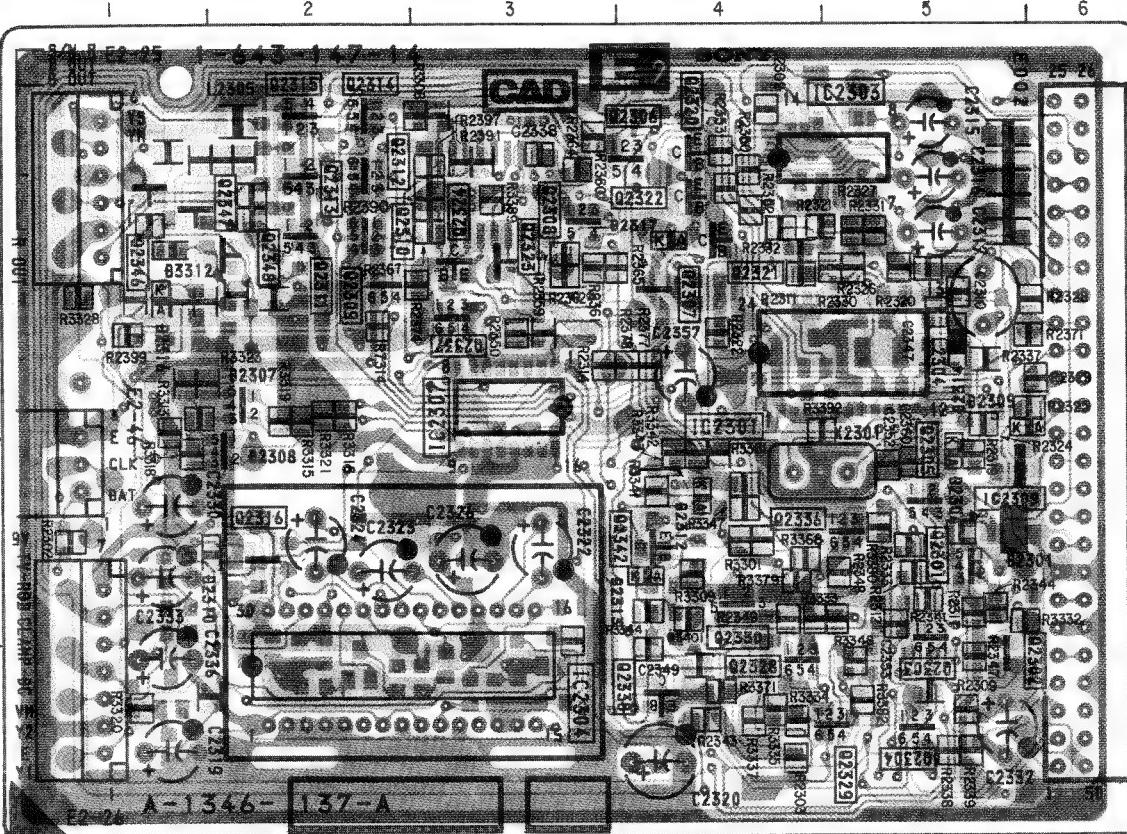
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

ables seeing.

- E2 BOARD - <Component Side>

Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



E2 BOARD

IC

IC2301	B - 4
IC2303	A - 5
IC2304	D - 3, E - 2
IC2306	H - 3
IC2307	B - 3

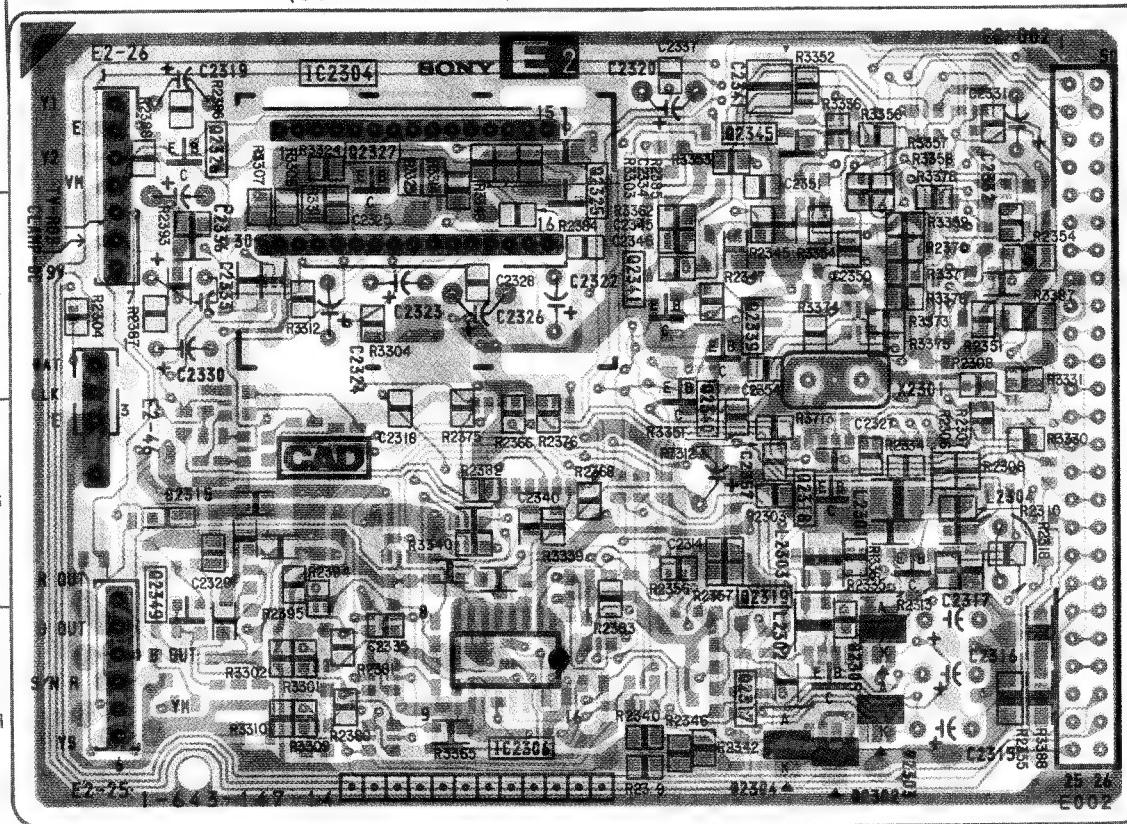
TRANSISTOR

Q2301	C - 5
Q2303	C - 5
Q2304	D - 5
Q2305	C - 5
Q2306	A - 3
Q2307	B - 4
Q2308	A - 3
Q2309	B - 2
Q2310	A - 2
Q2311	A - 2
Q2312	A - 2
Q2313	A - 2
Q2314	A - 2
Q2315	A - 2
Q2317	H - 4
Q2318	G - 4
Q2319	G - 5
Q2320	A - 4
Q2321	A - 4
Q2322	A - 4
Q2324	B - 3
Q2326	E - 1
Q2327	E - 2
Q2330	C - 4
Q2337	B - 3
Q2339	F - 4
Q2340	F - 4
Q2341	F - 4

DIODE

D2306	C - 5
D2307	B - 2
D2308	B - 2
D2309	B - 5
D2312	C - 4
D2313	C - 4
D2314	B - 5
D2317	A - 4

<Conductor Side>



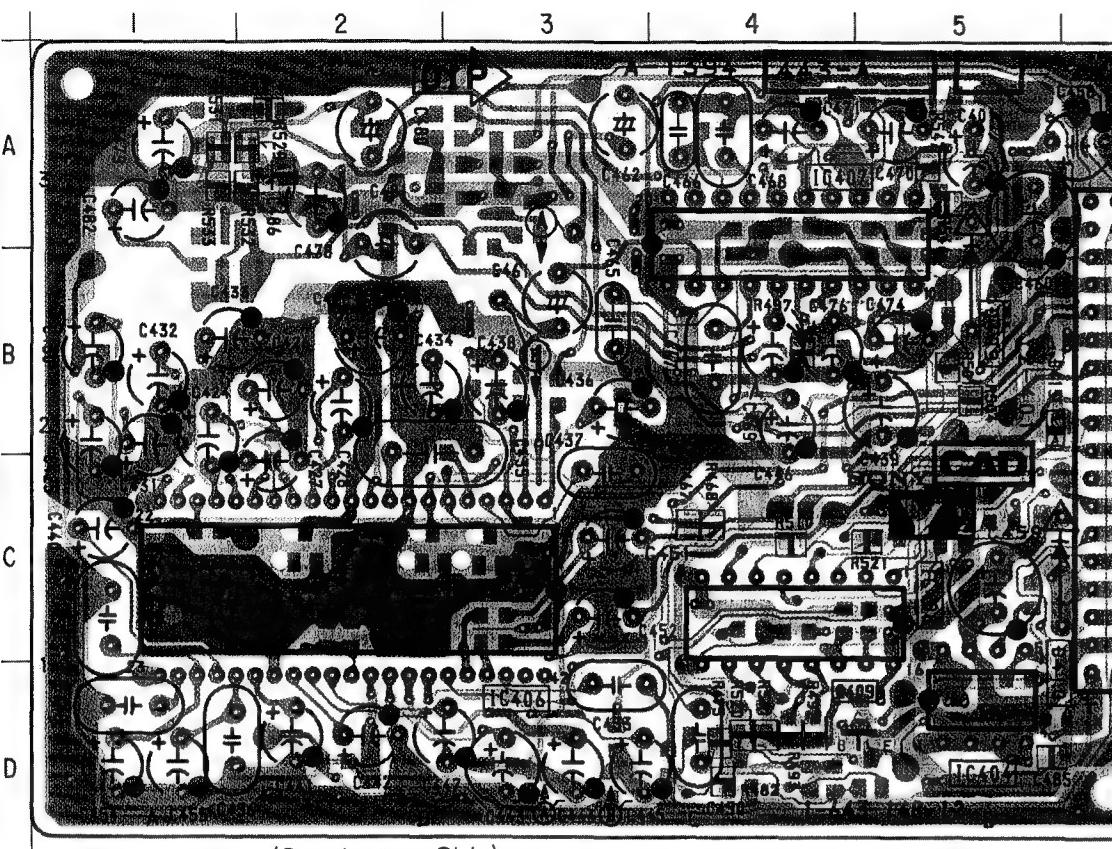
Y2 MTS-DECORDER,
NVM, AUDIO CON.

UT IN/OUT TERMINAL

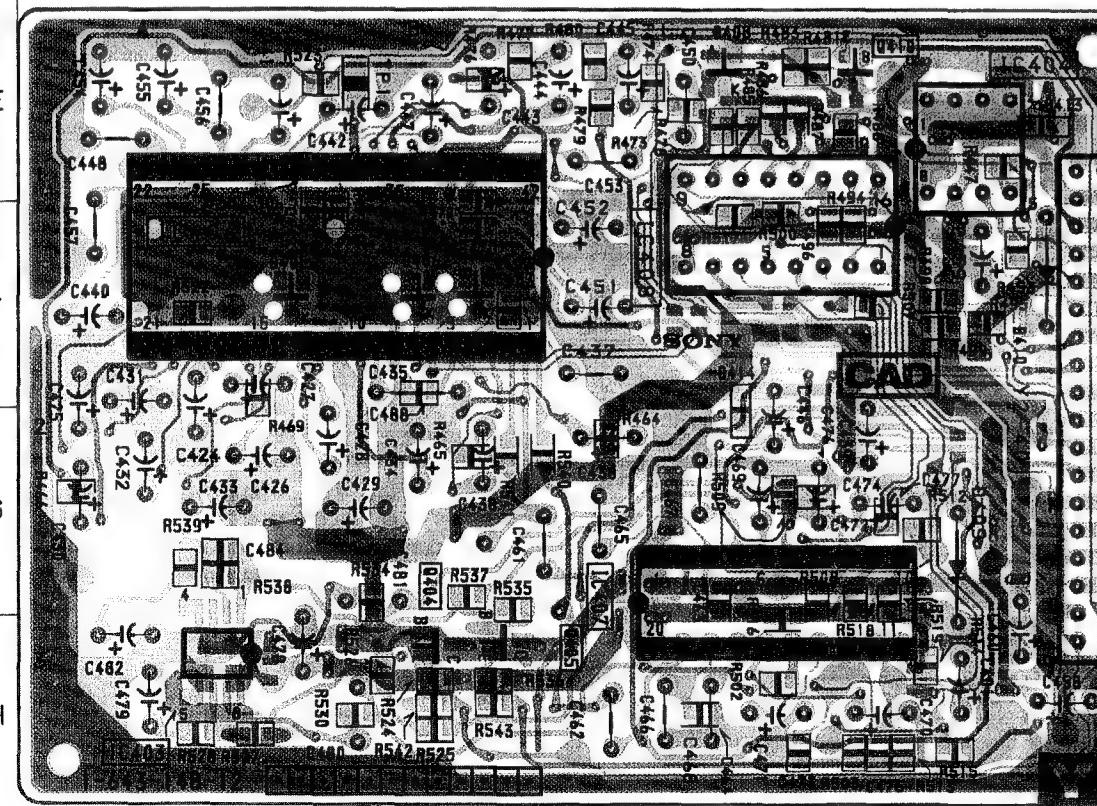
– Y2 BOARD – <Component Side>

Note

- : Pattern from the side which enables seeing
 - : Pattern of the rear side.



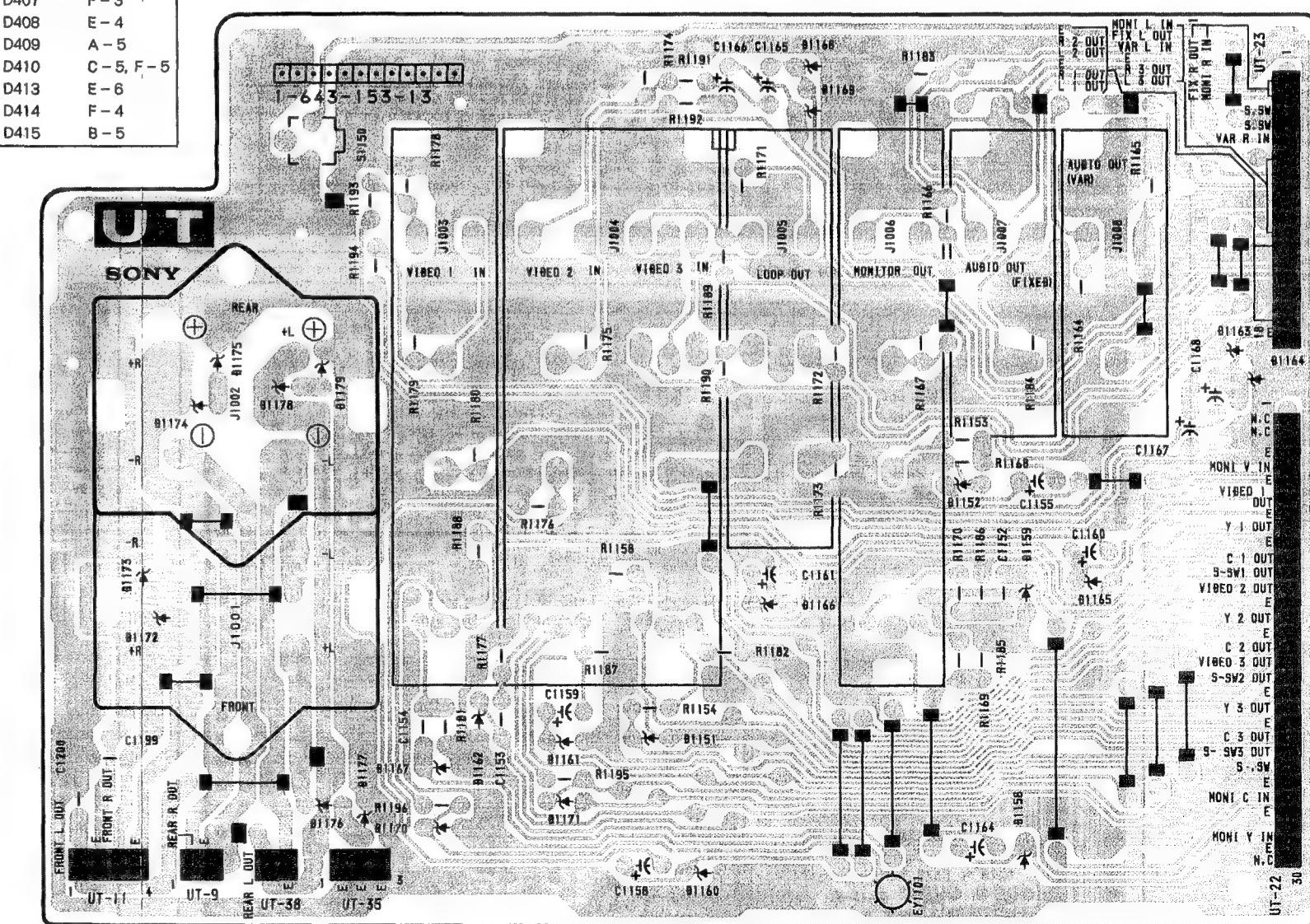
Conductor Side

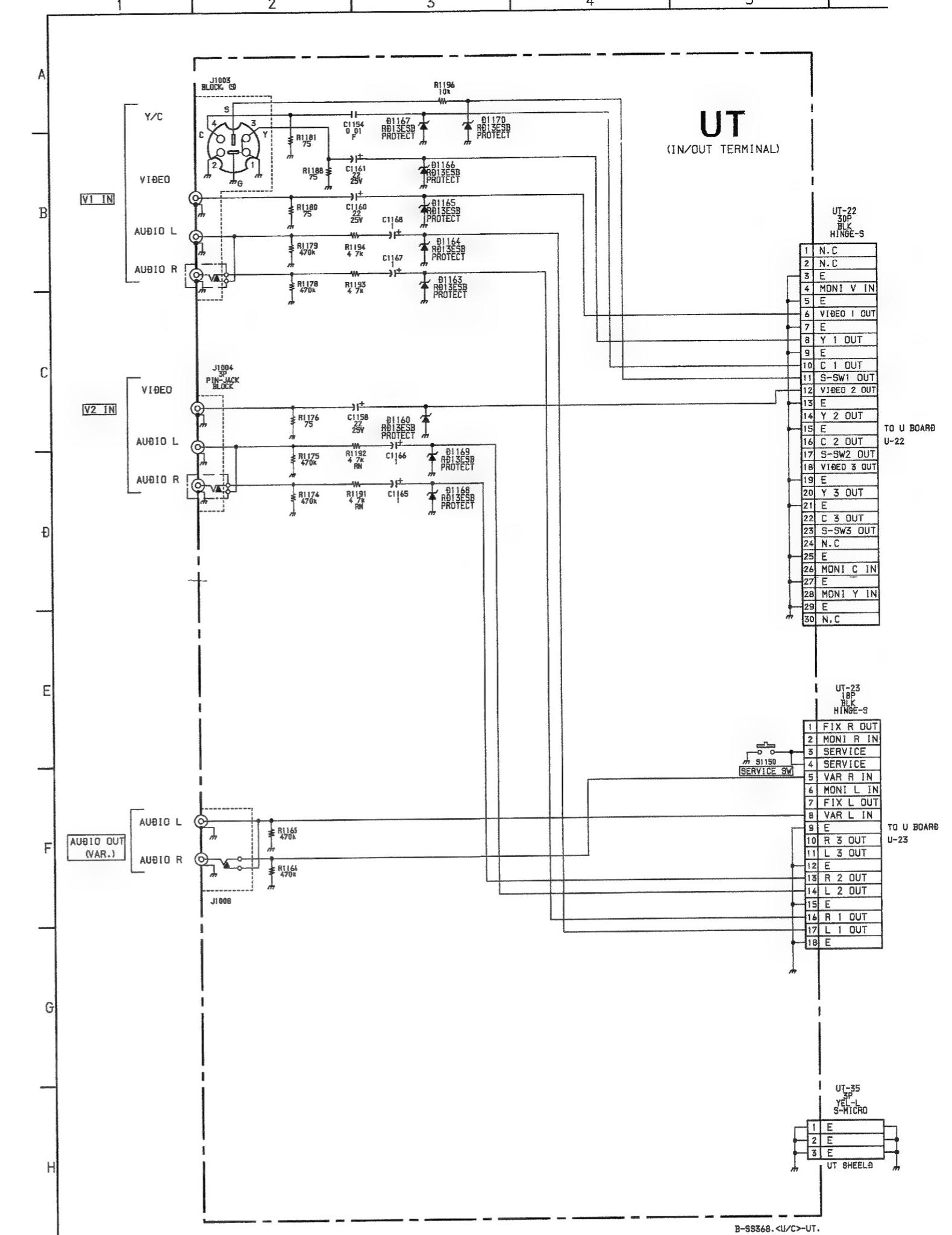
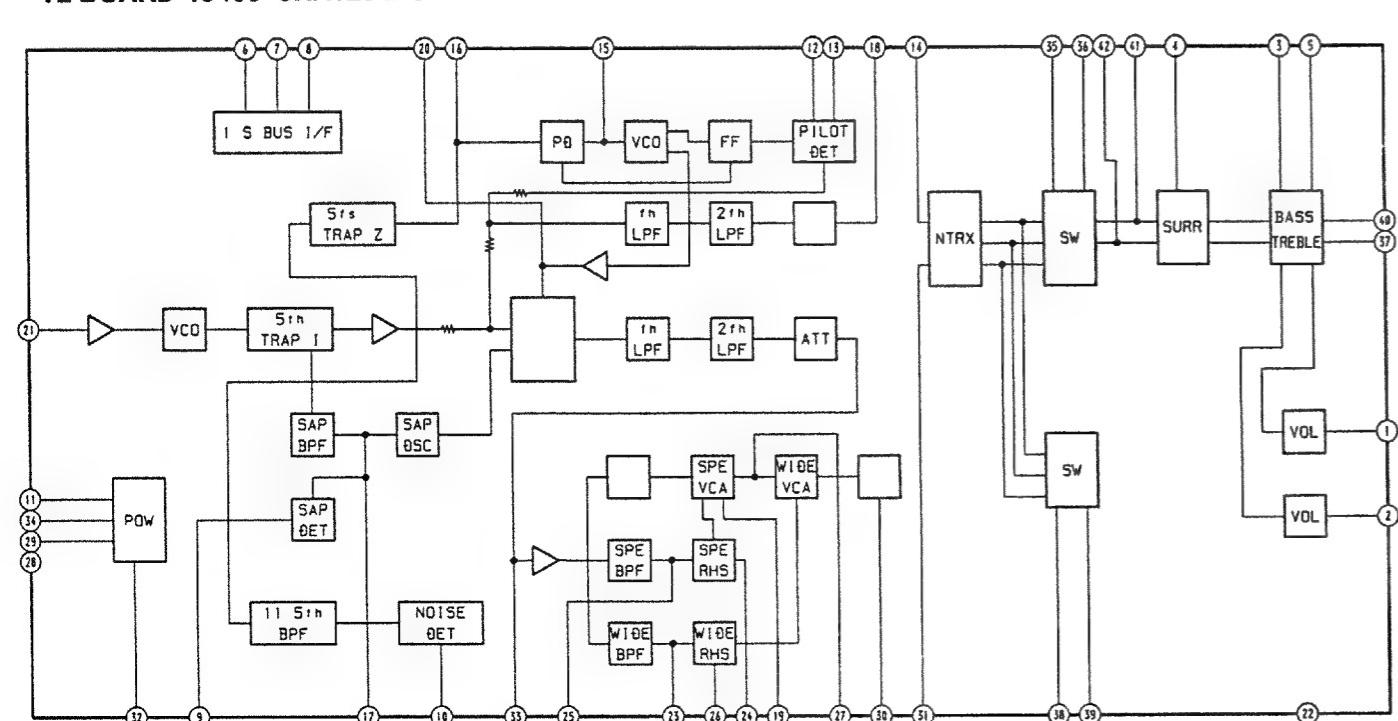
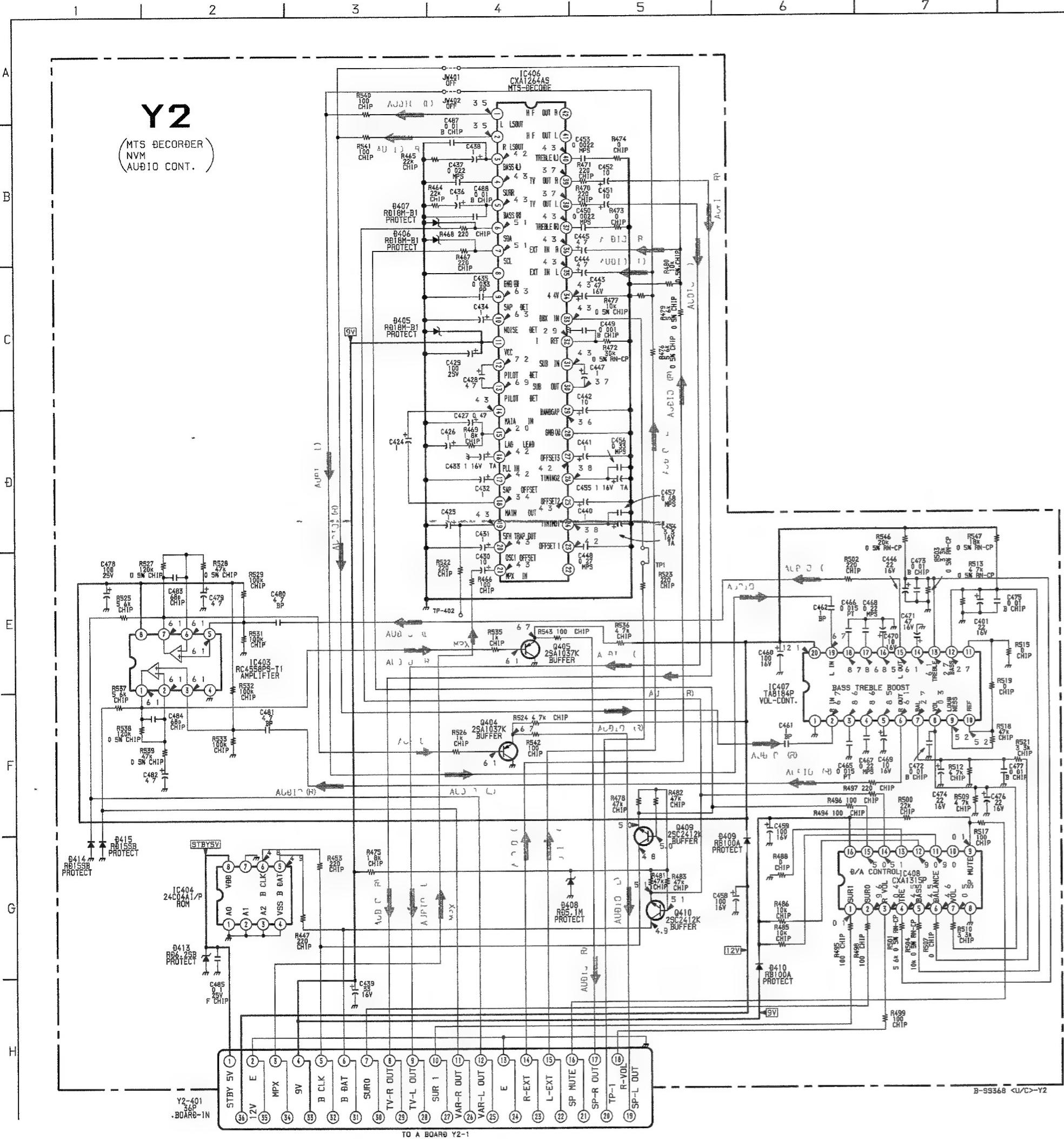


Y2 BOAR

IC	
IC403	H - 1
IC404	D - 5, E
IC406	C - 2, F
IC407	A - 4, G
IC408	C - 4, F
TRANSISTOR	
Q404	H - 3
Q405	H - 3
Q409	D - 5
Q410	E - 5
DIODE	
D405	F - 2
D406	F - 2
D407	F - 3
D408	E - 4
D409	A - 5
D410	C - 5, F
D413	E - 6
D414	F - 4
D415	B - 5

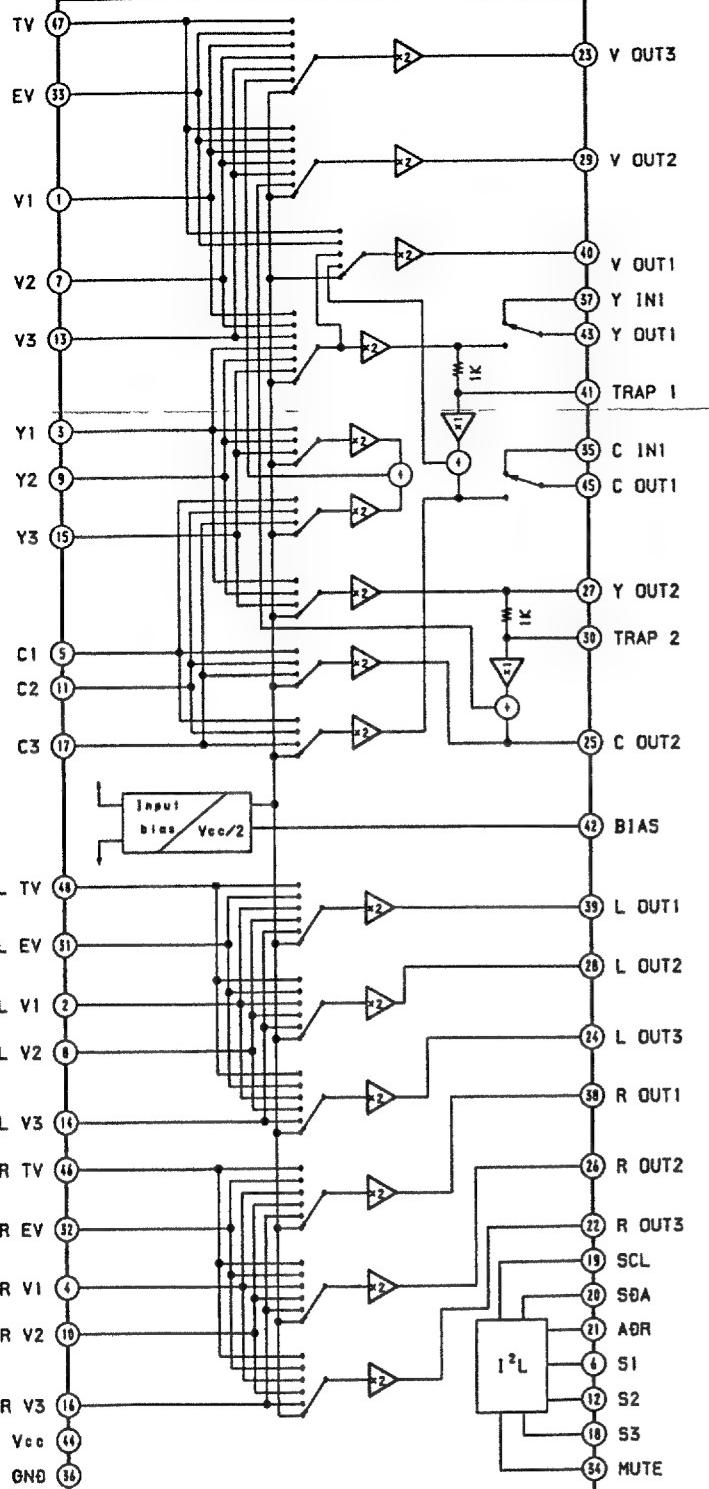
- UT BOARD



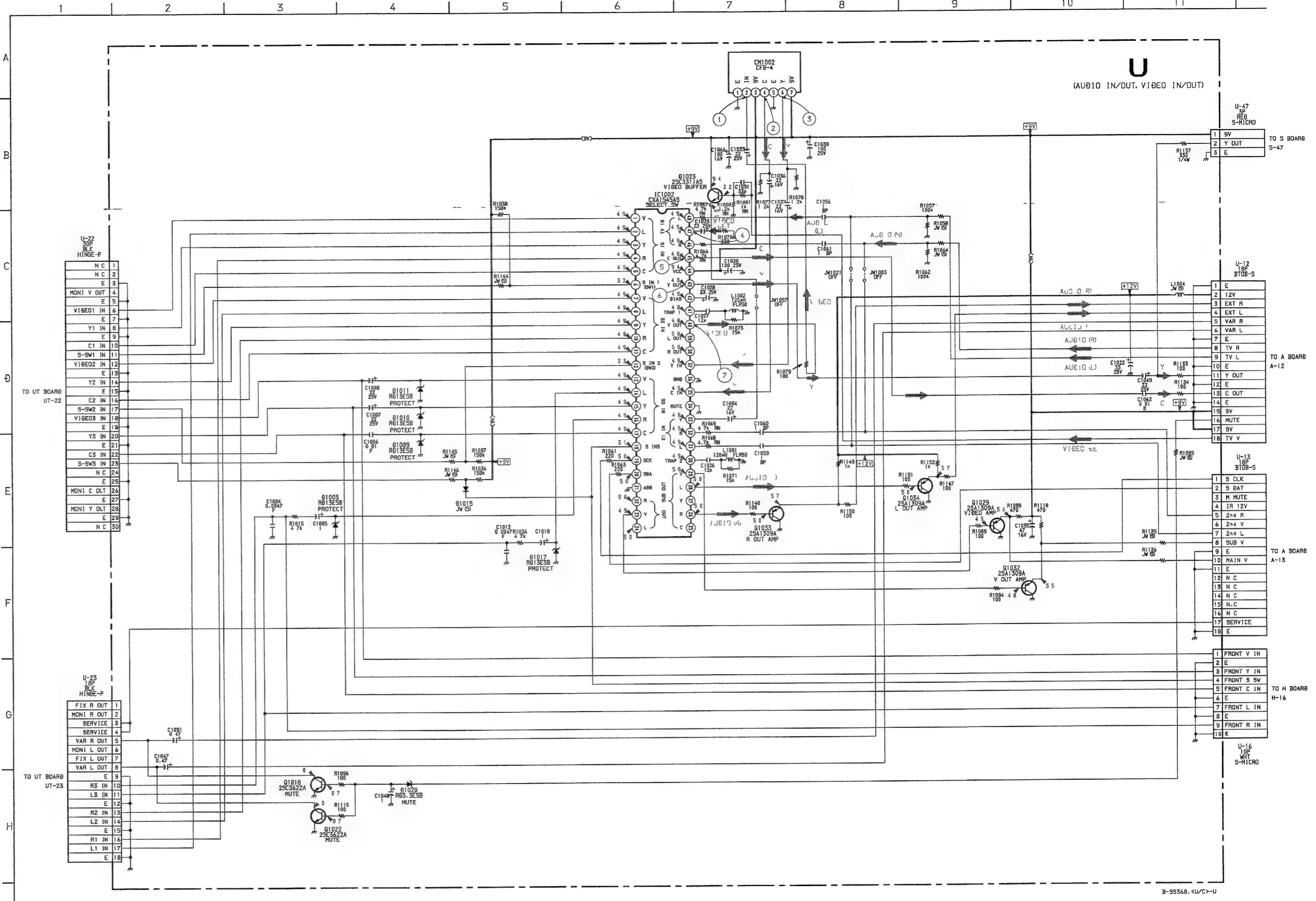
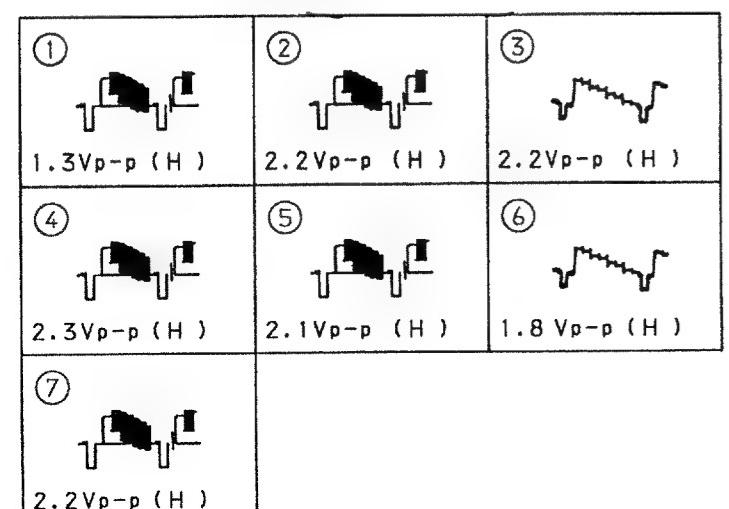


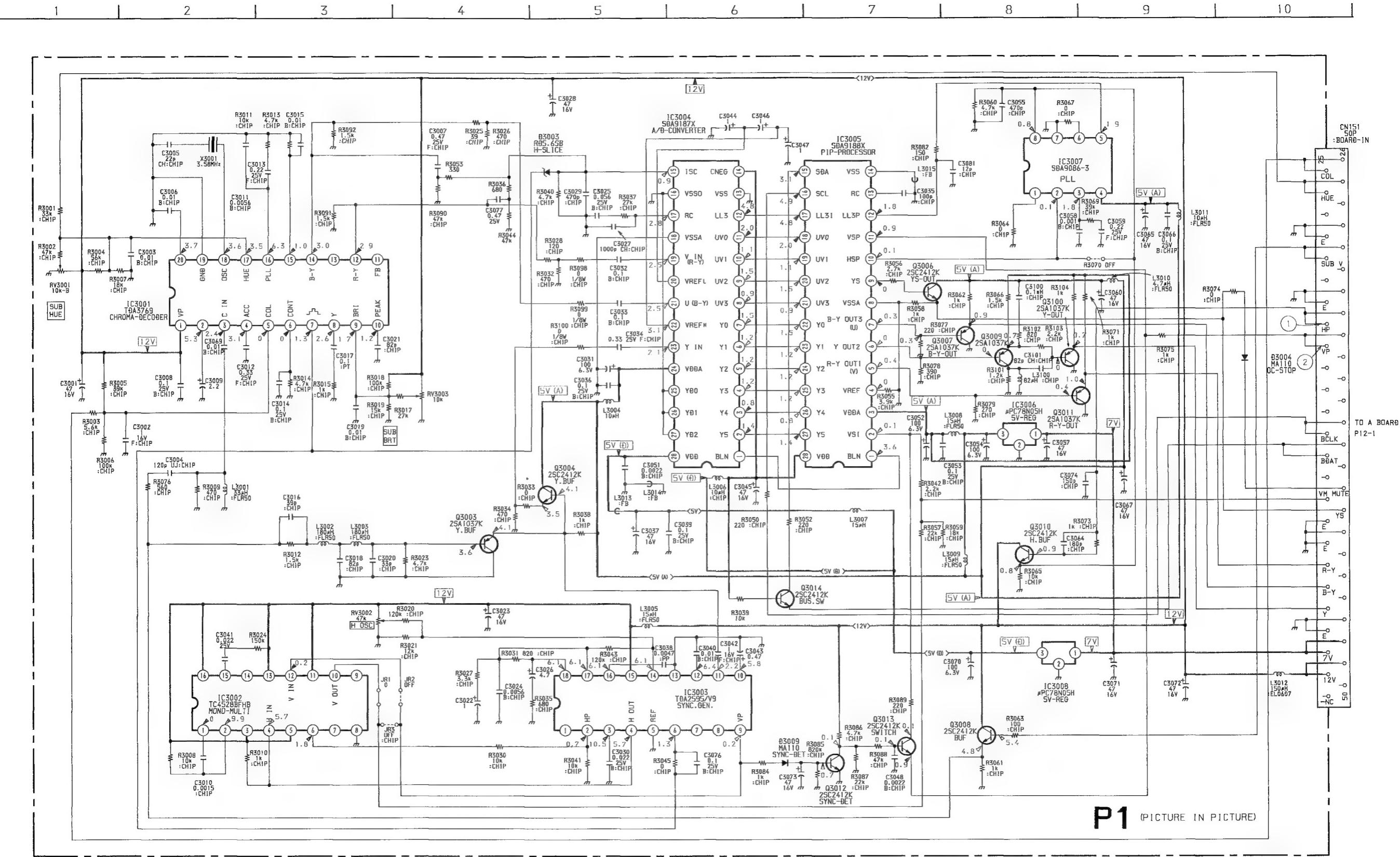
Schematic diagrams

U BOARD IC1002 CXA1545S



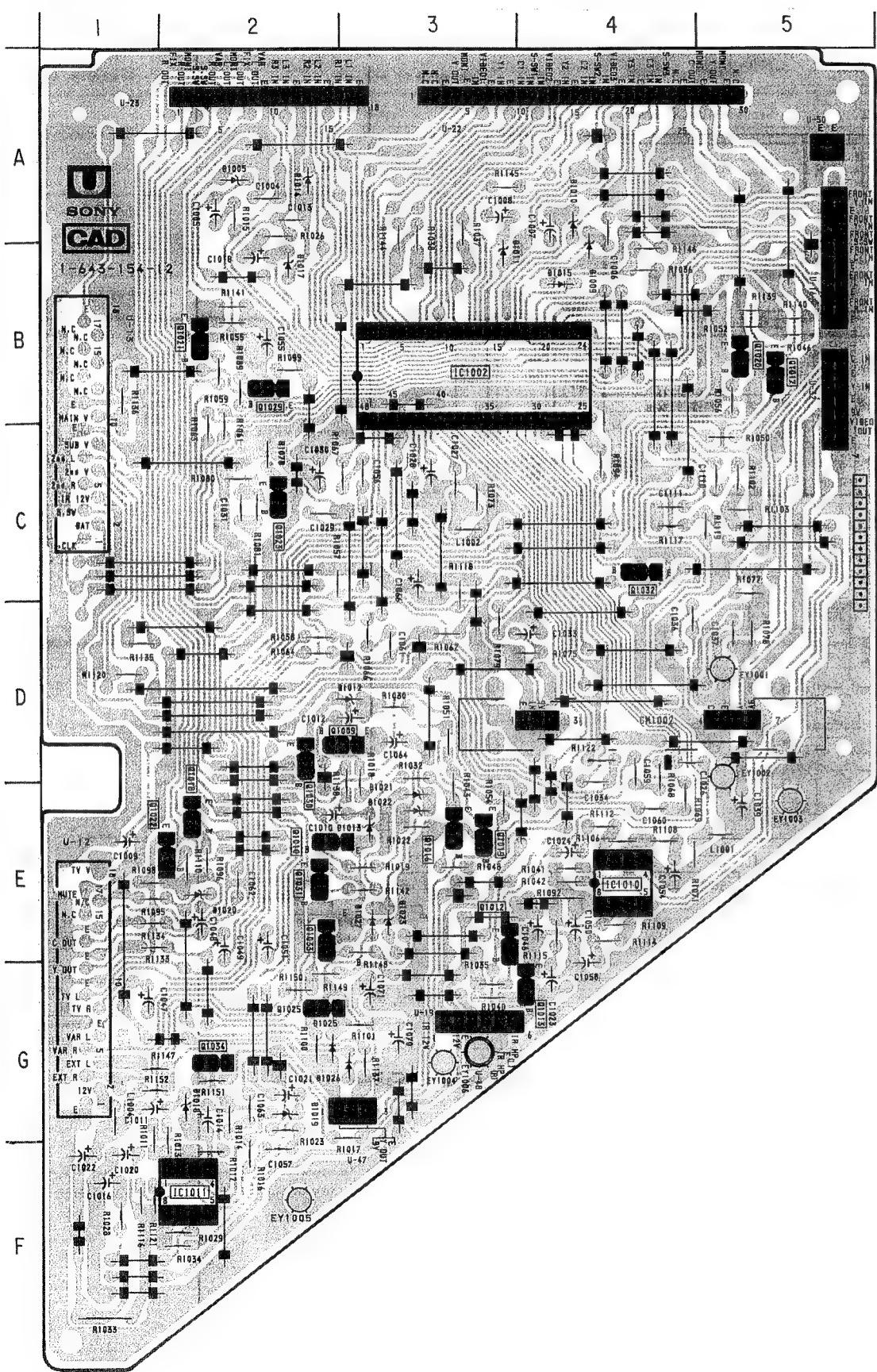
• U BOARD WAVEFORMS





U [AUDIO IN/OUT,
VIDEO IN/OUT] **P1** [P IN P]

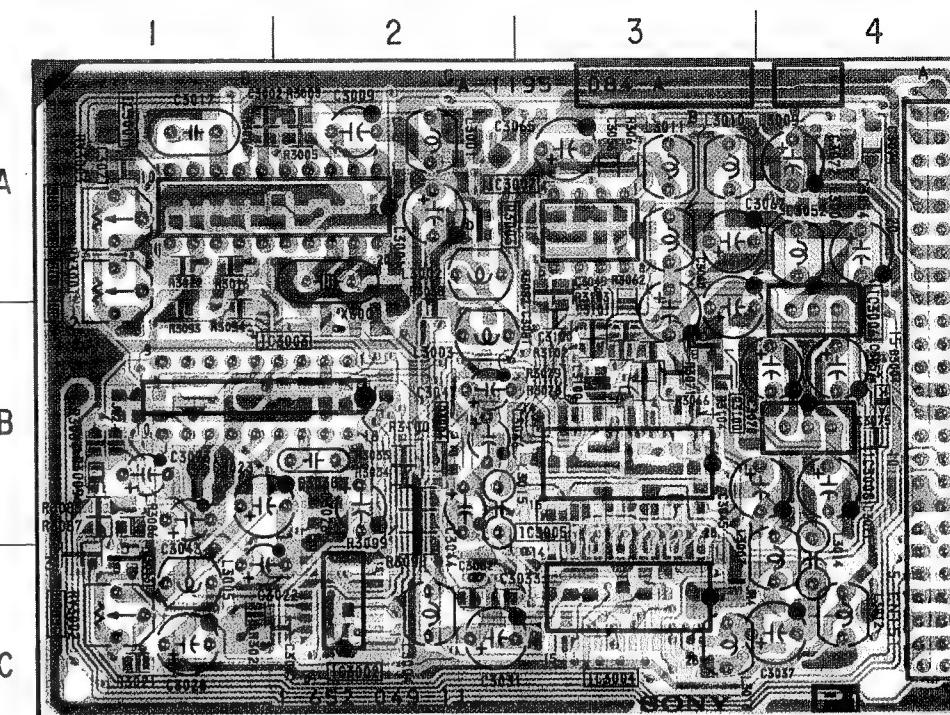
- U BOARD -



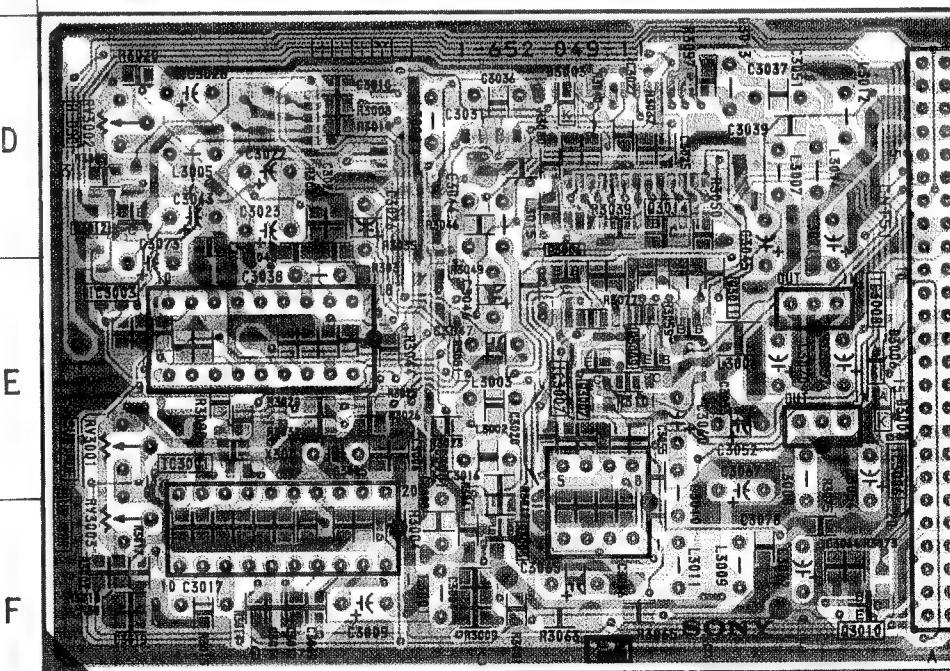
U BOARD

IC
IC1002 B - 3
TRANSISTOR
Q1018 E - 2
Q1022 E - 1
Q1023 C - 2
Q1029 B - 2
Q1032 C - 4
Q1033 E - 2
Q1034 G - 2
DIODE
D1005 A - 2
D1009 B - 4
D1010 A - 4
D1011 B - 3
D1015 B - 4
D1017 B - 2
D1020 E - 2

- P1 BOARD - (Component Side)



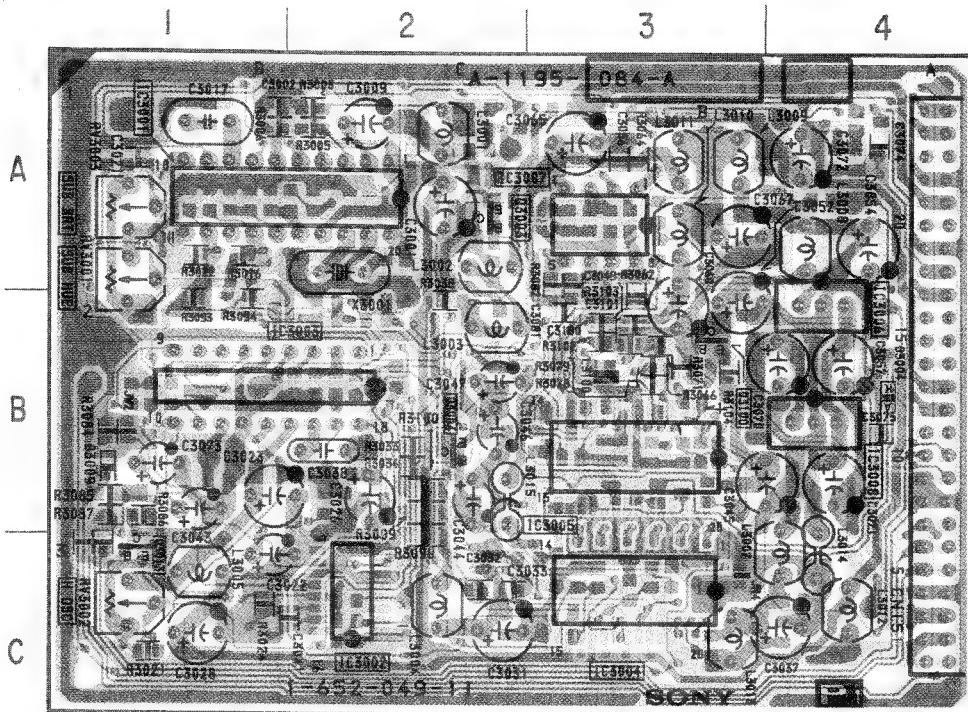
<Conductor Side>



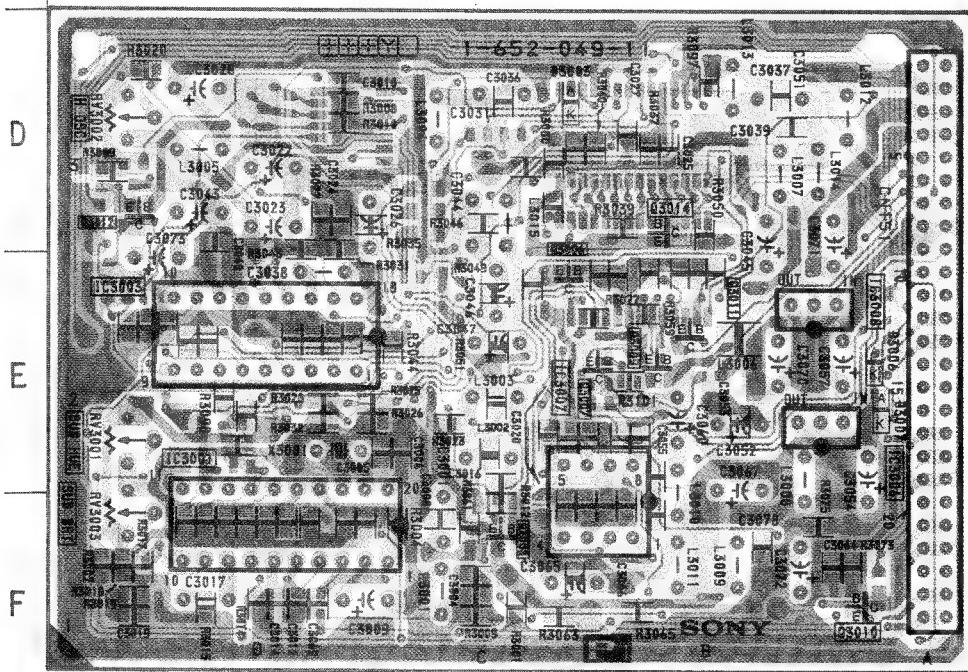
Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

- P1 BOARD - (Component Side)

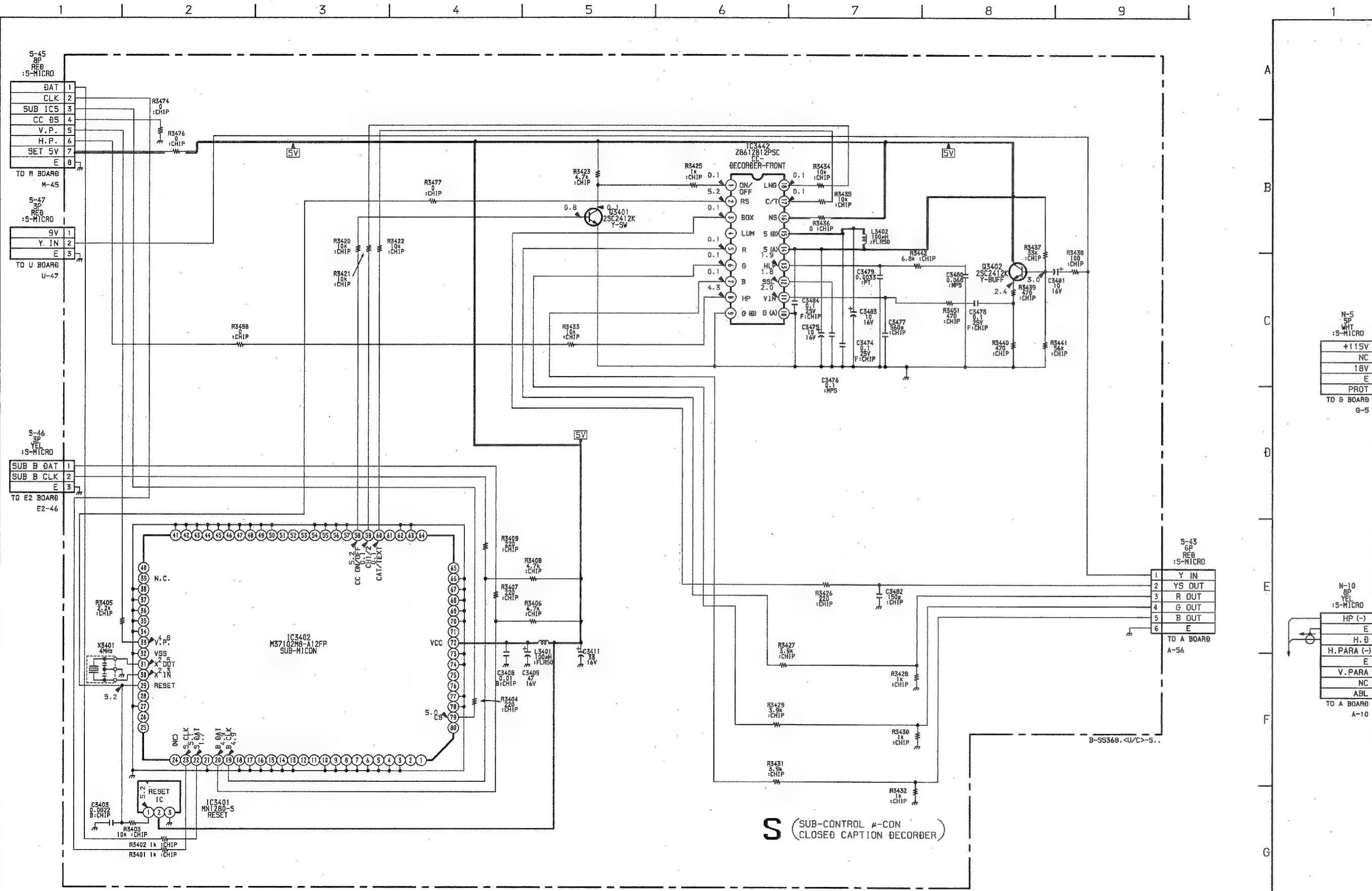


(Conductor Side)



Note :

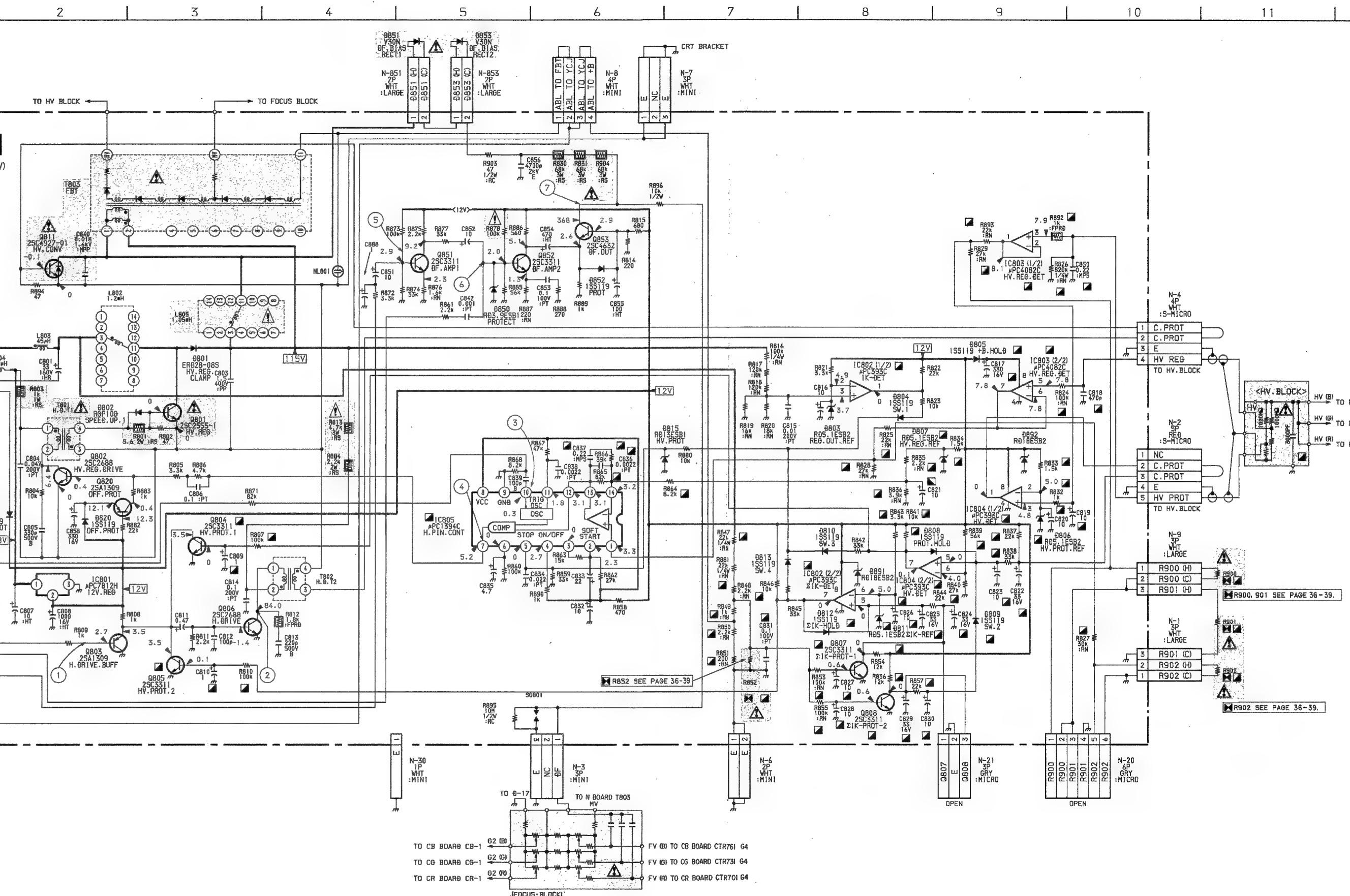
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



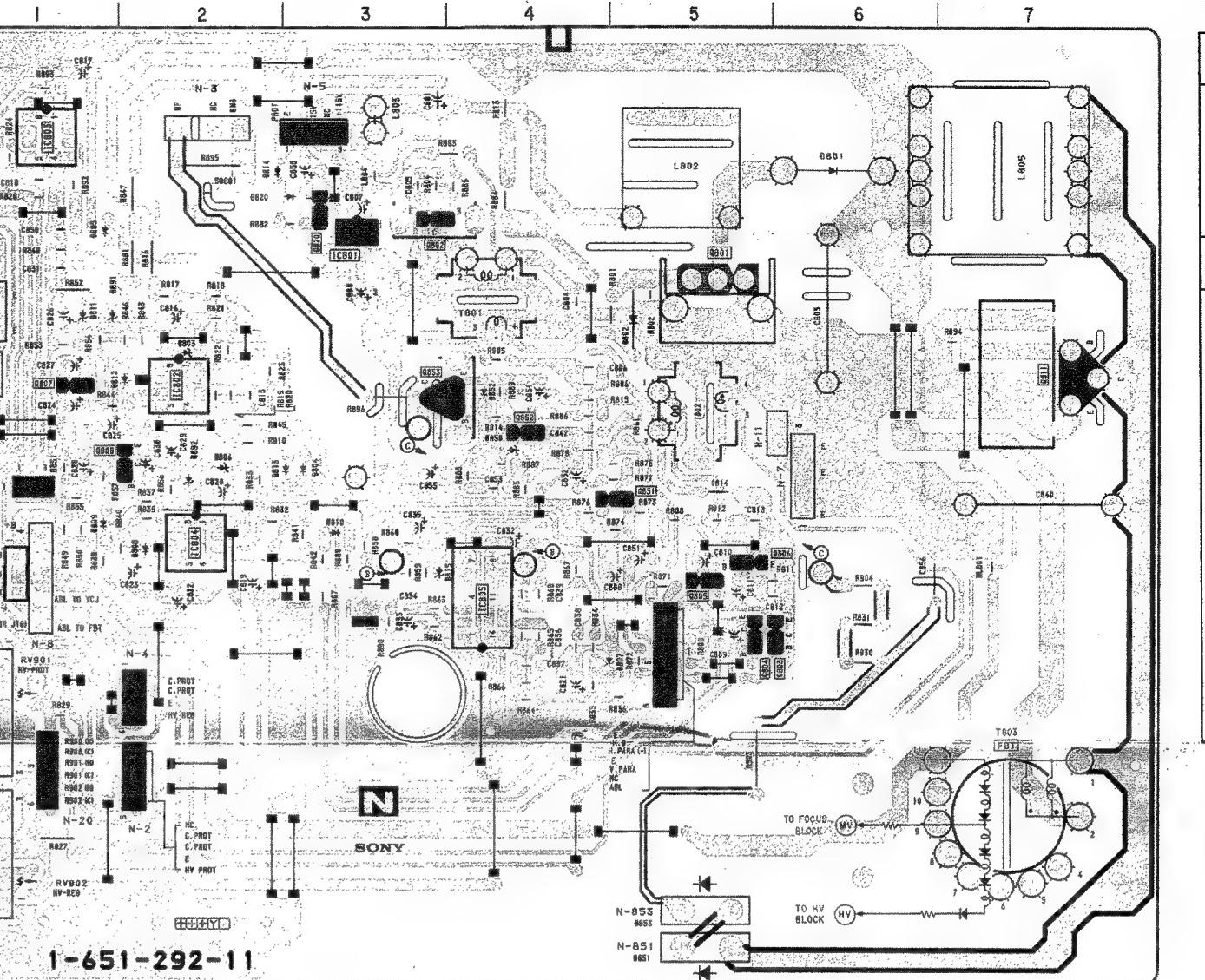
Schematic diagrams

- P1 board

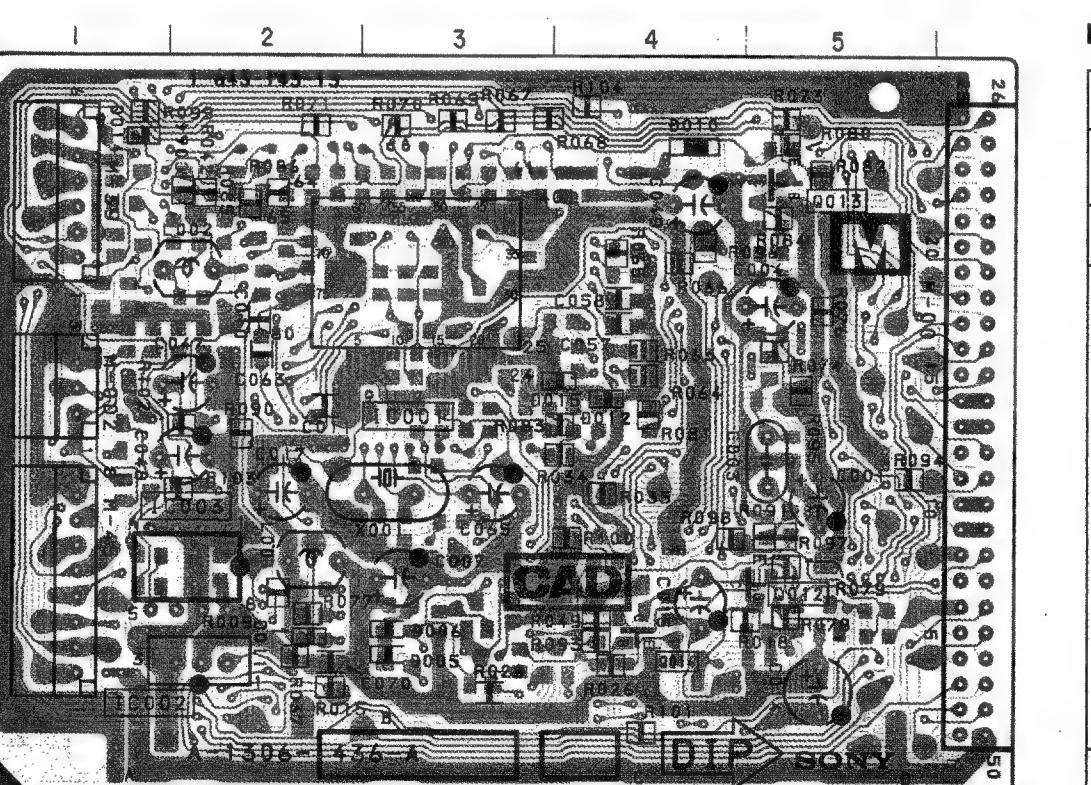
100



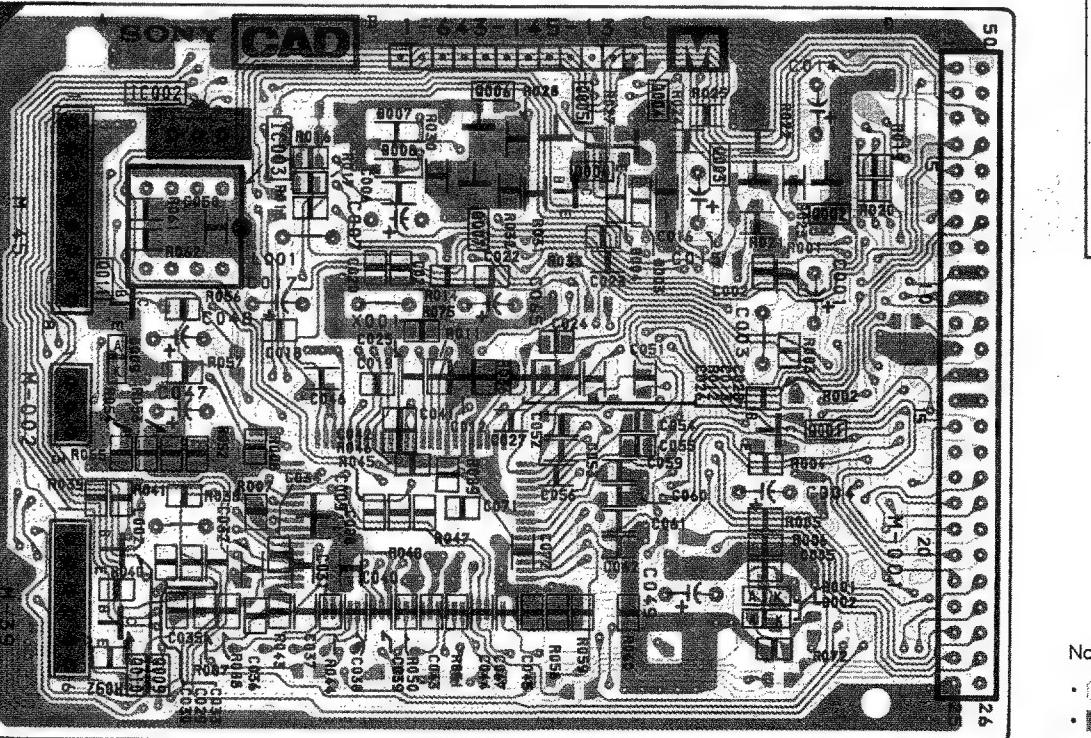
- N BOARD -



- M BOARD - (Component Side)



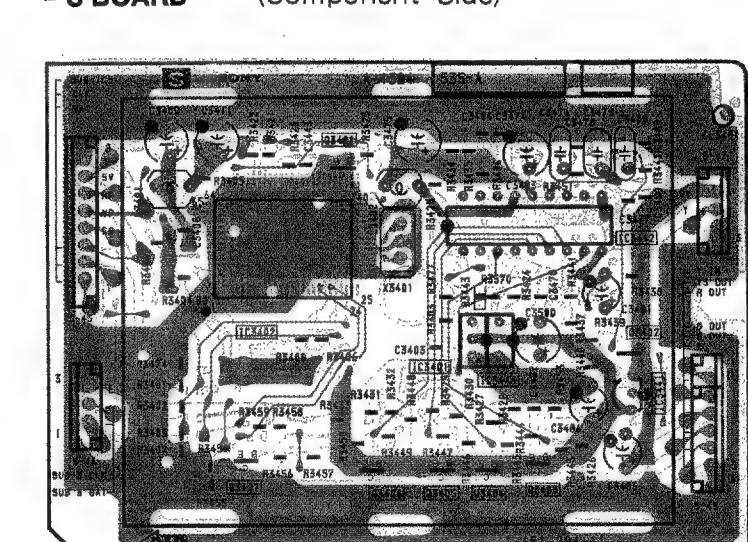
- M BOARD - (Conductor Side)



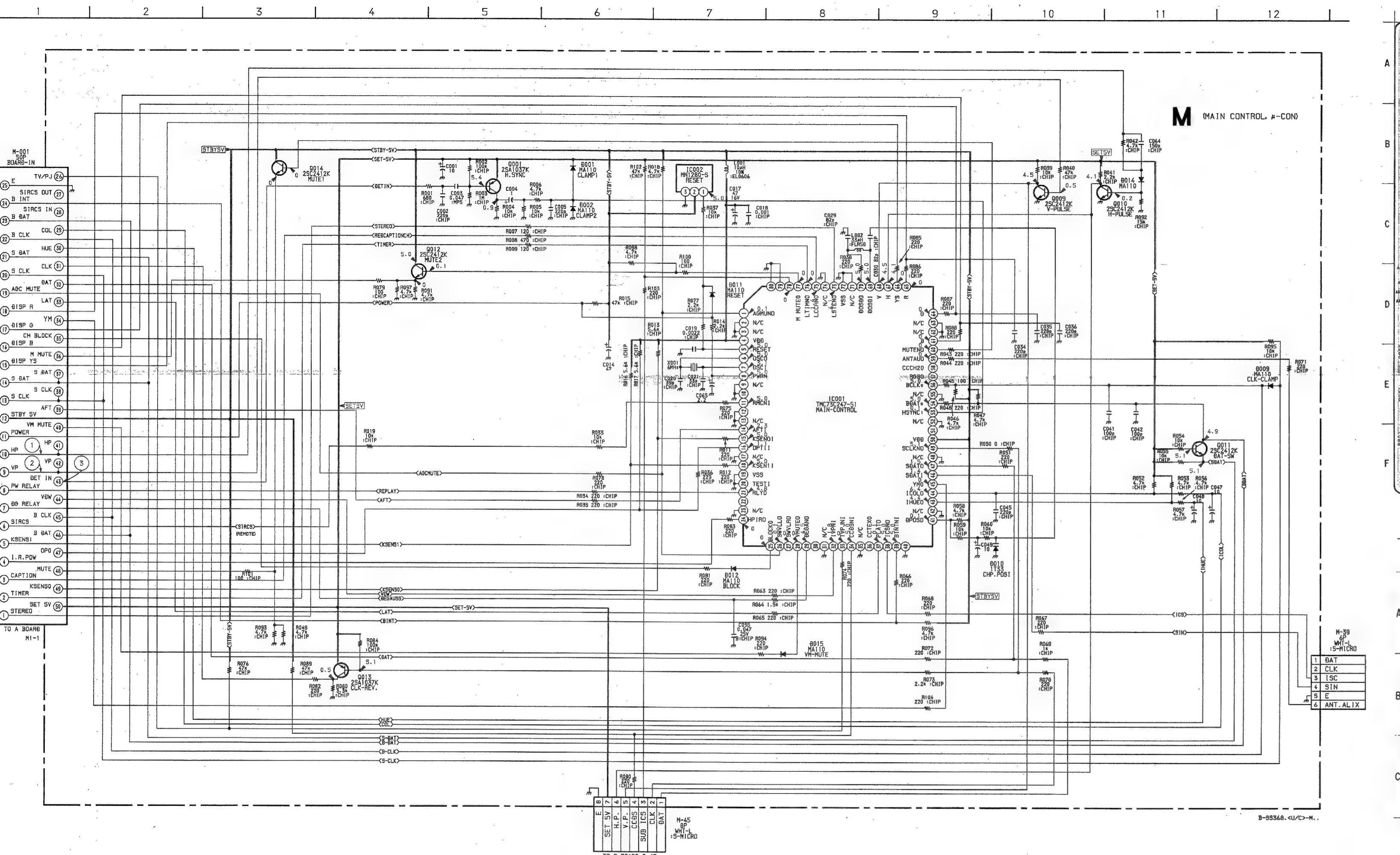
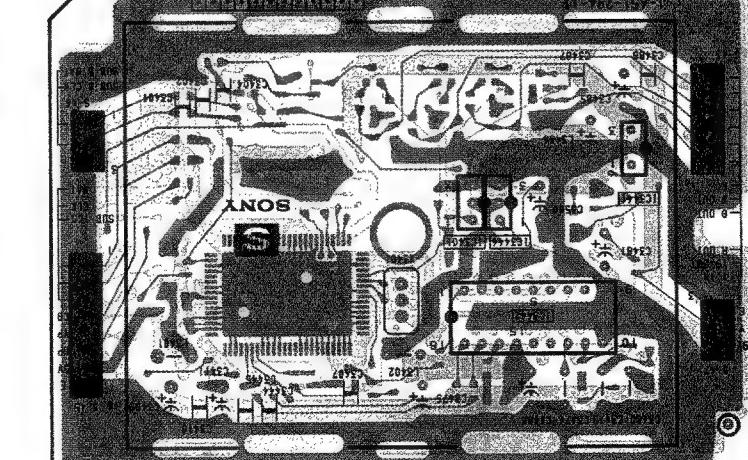
- N BOARD -

IC	DIODE
IC801	B - 3
IC802	B - 5
IC803	C - 2
IC804	C - 3
IC805	B - 1
DB806	C - 2
DB807	D - 4
DB808	D - 2
DB809	D - 1
DB810	D - 3
DB811	B - 1
DB812	C - 2
DB813	C - 2
DB814	A - 2
DB815	D - 3
DB820	A - 3
DB850	C - 4
DB851	E - 5
DB852	C - 4
DB853	C - 4
DB891	B - 1
DB892	C - 2

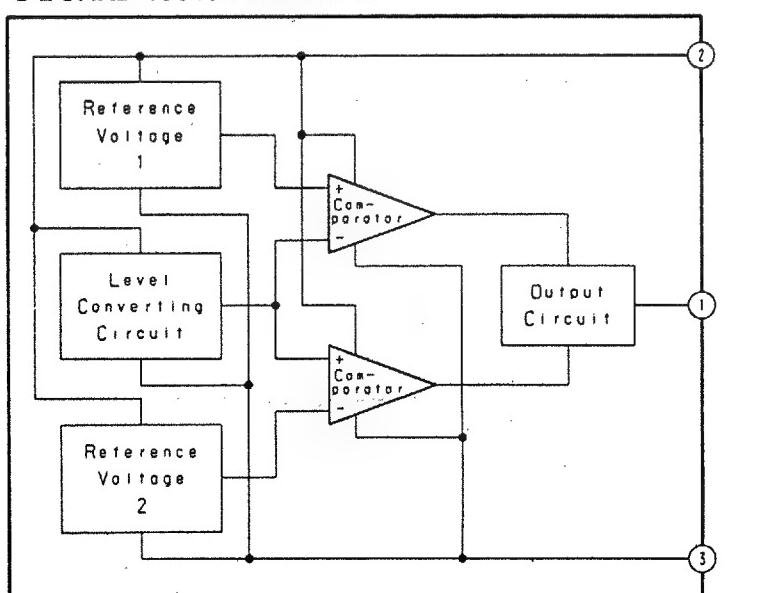
- S BOARD - (Component Side)



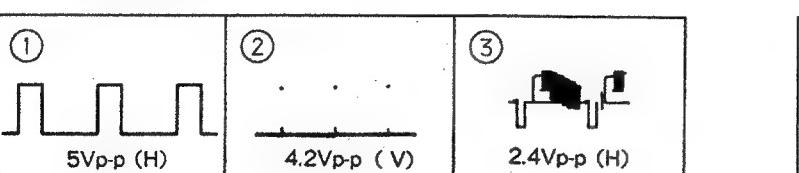
- S BOARD - (Conductor Side)



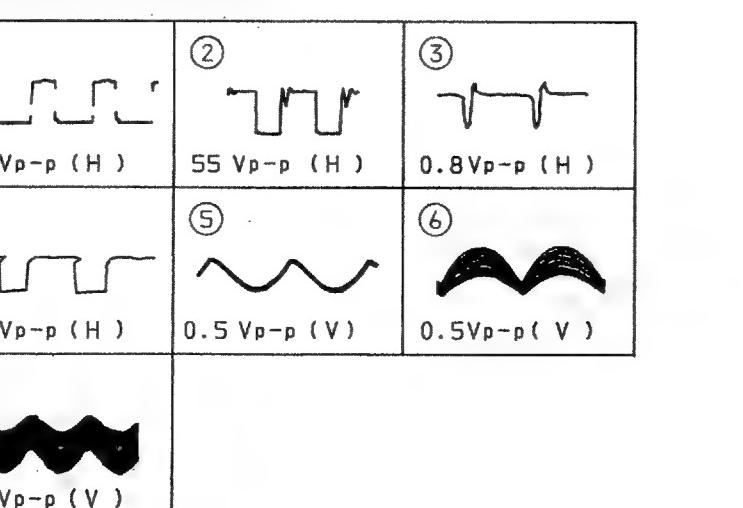
S BOARD IC3401 MN1280-S



• M BOARD WAVEFORMS

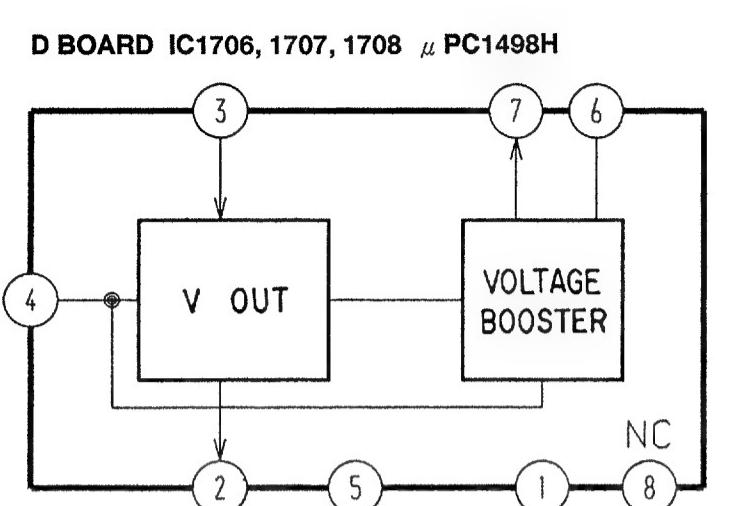


• N BOARD WAVEFORMS

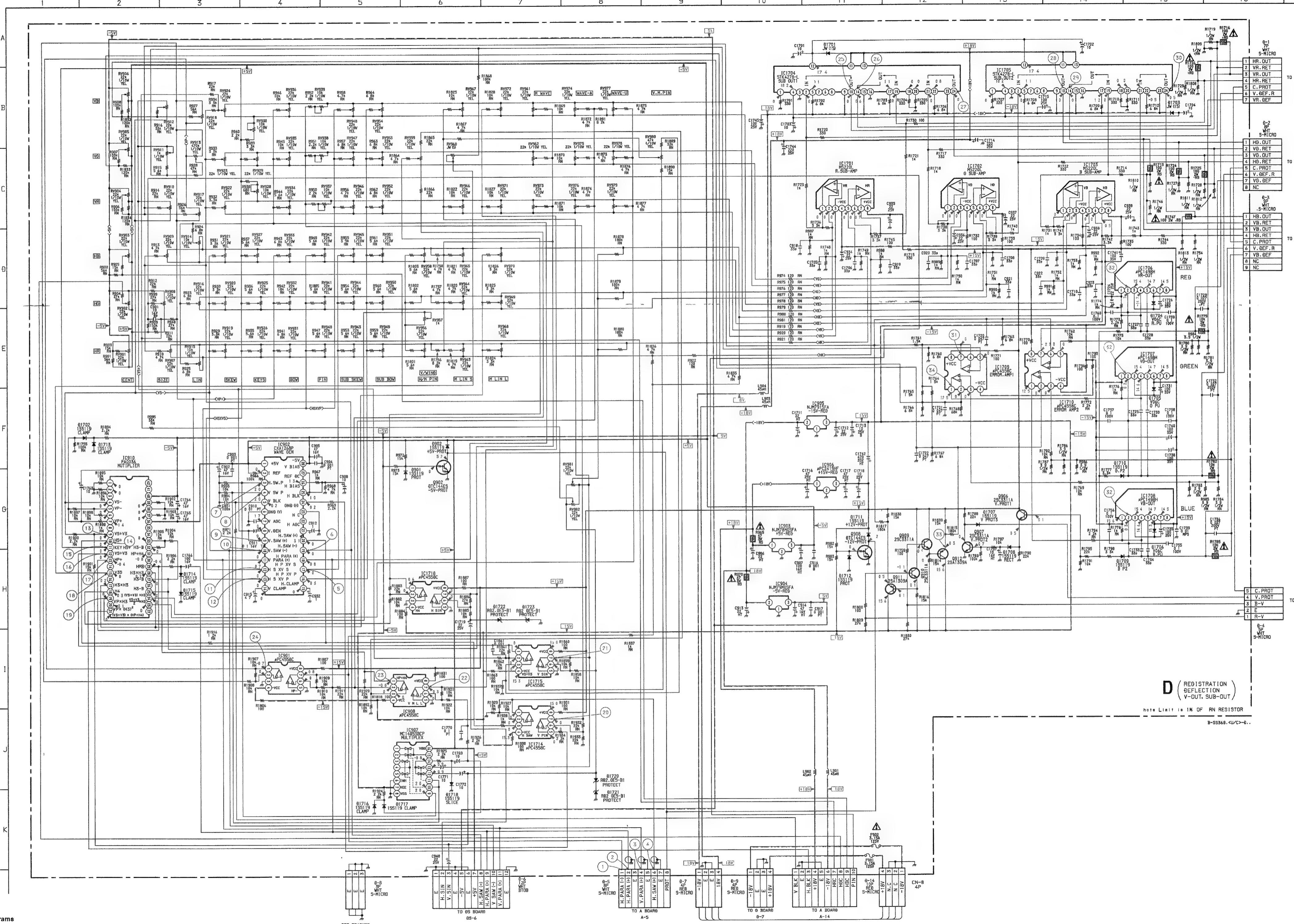
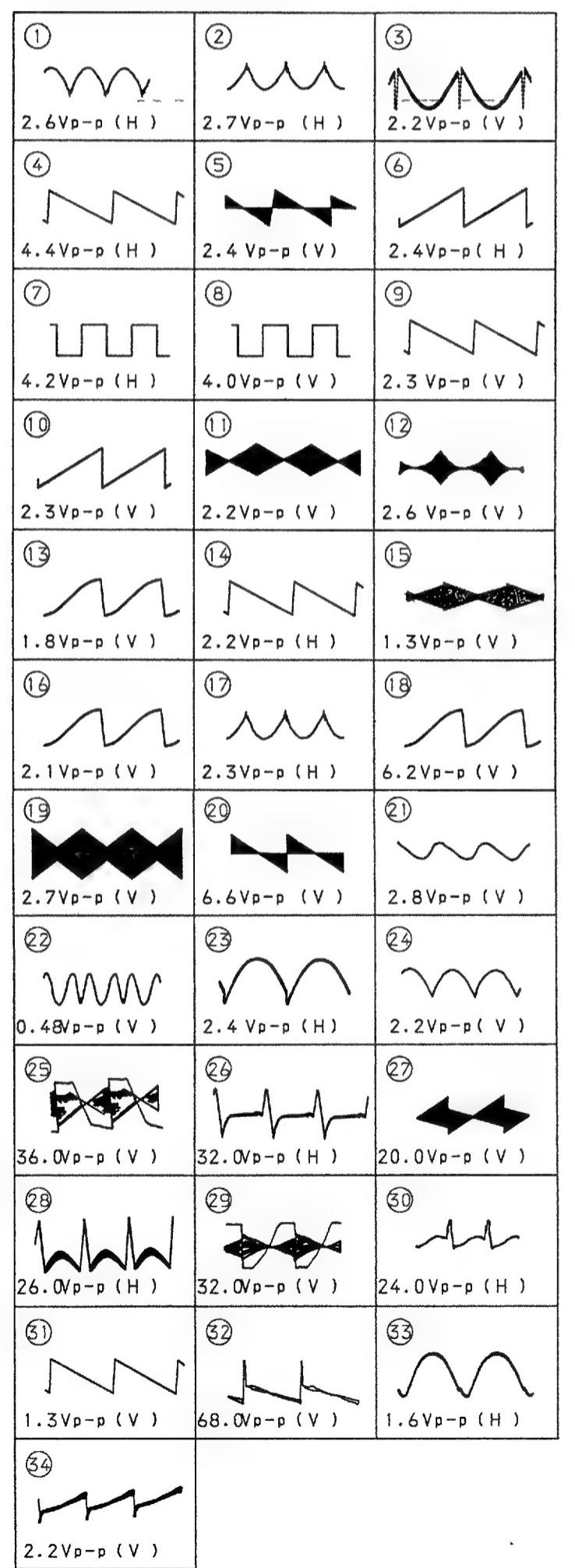


Note:
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

Note:
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

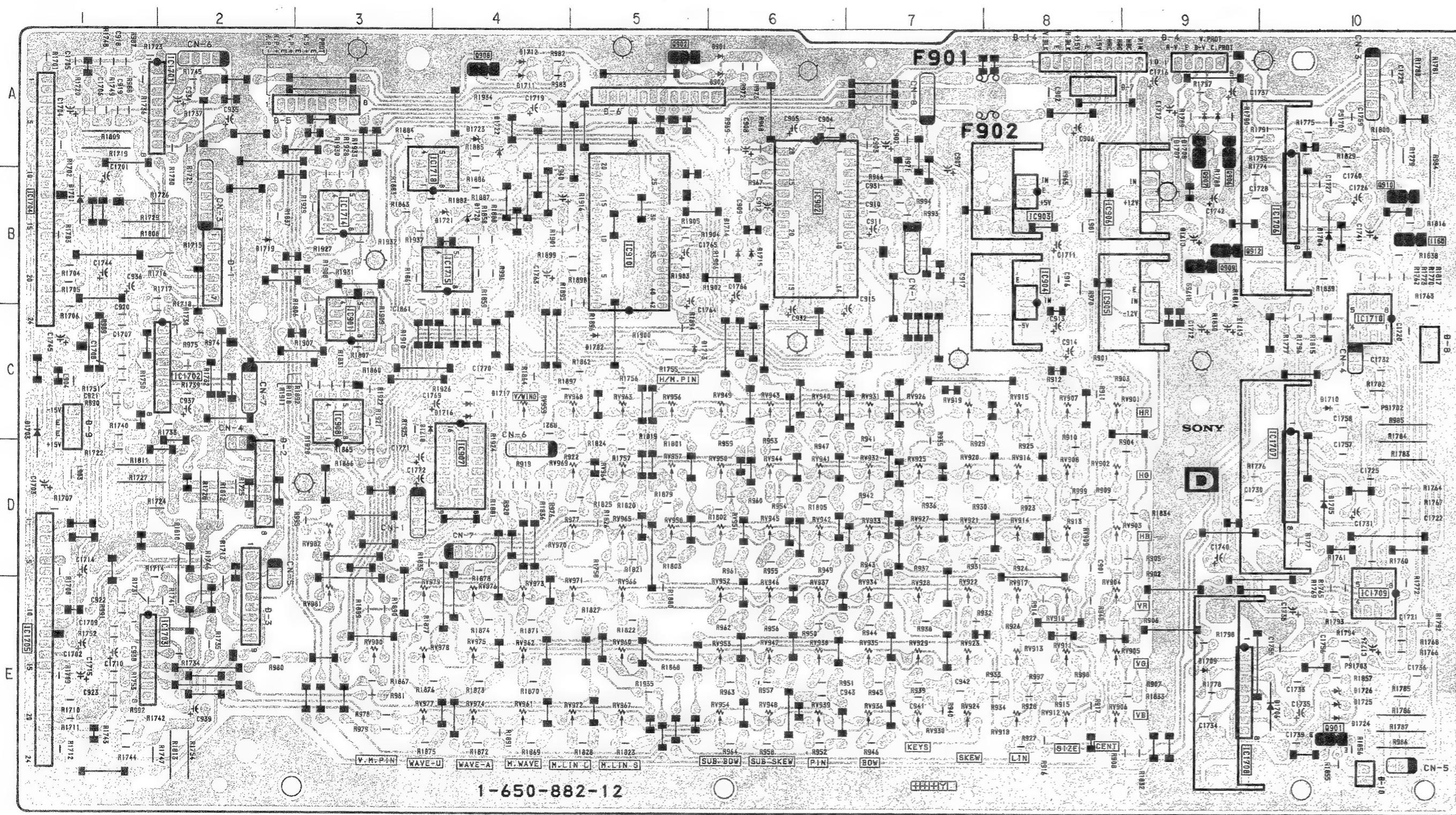


• D BOARD WAVEFORMS



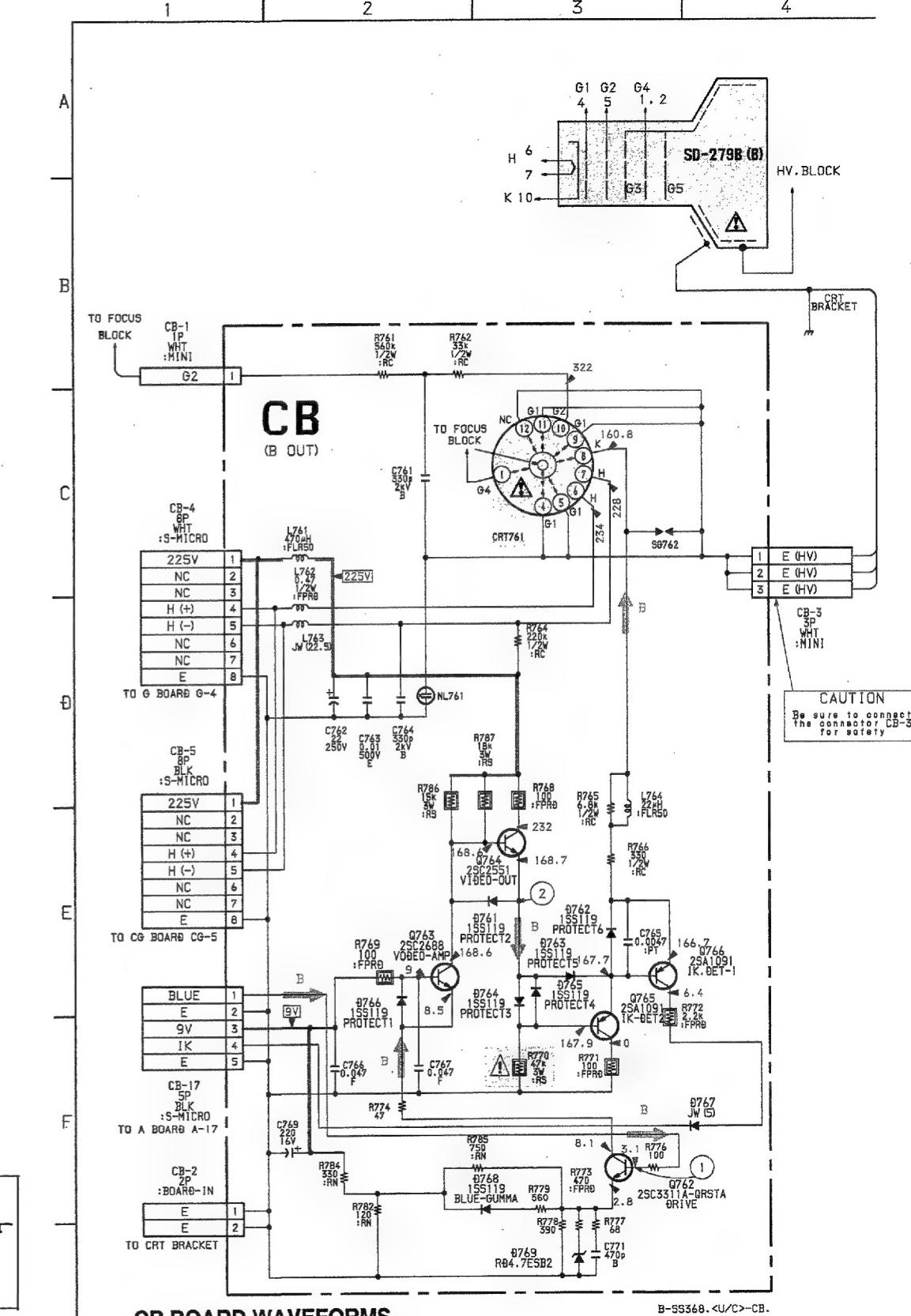
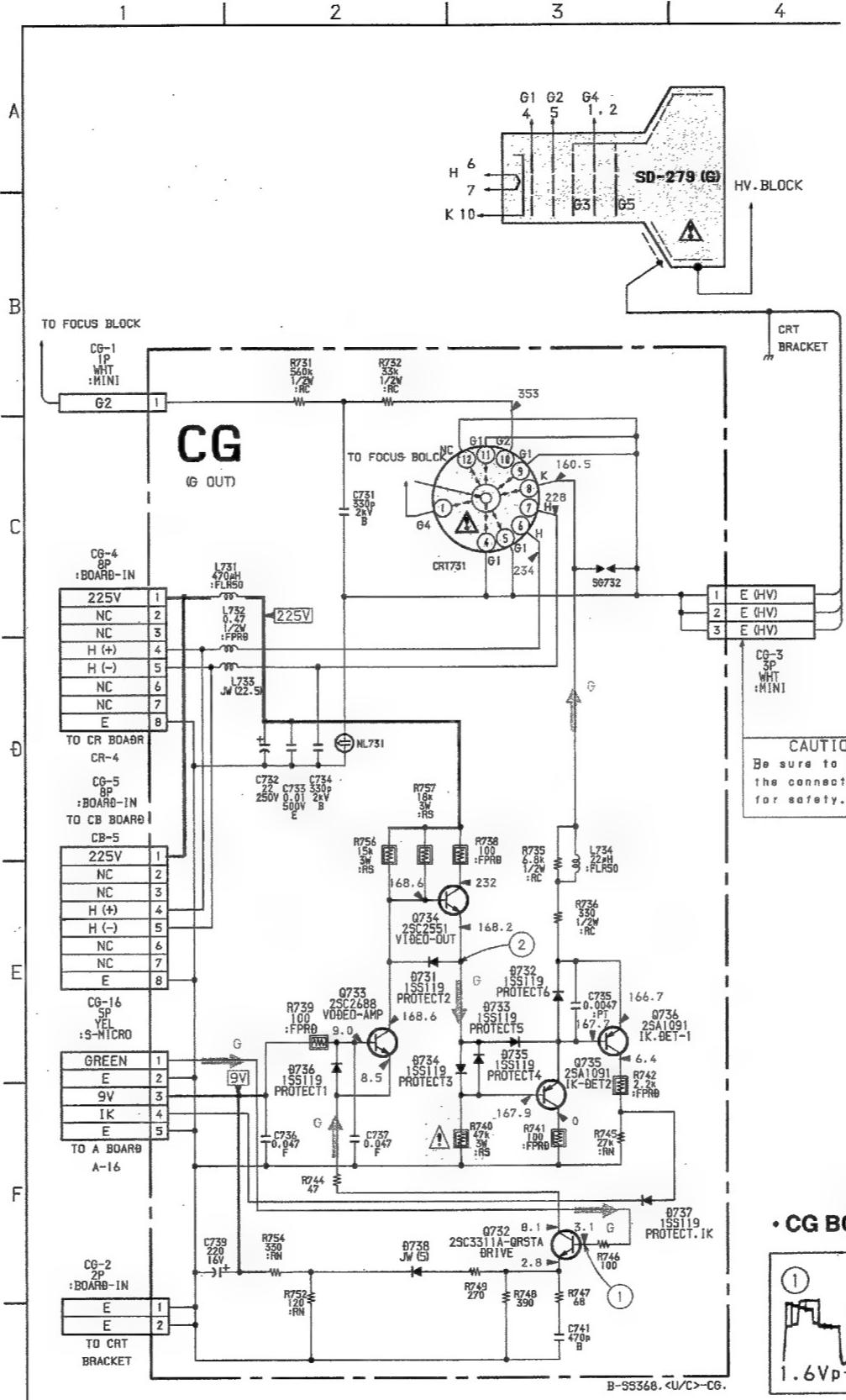
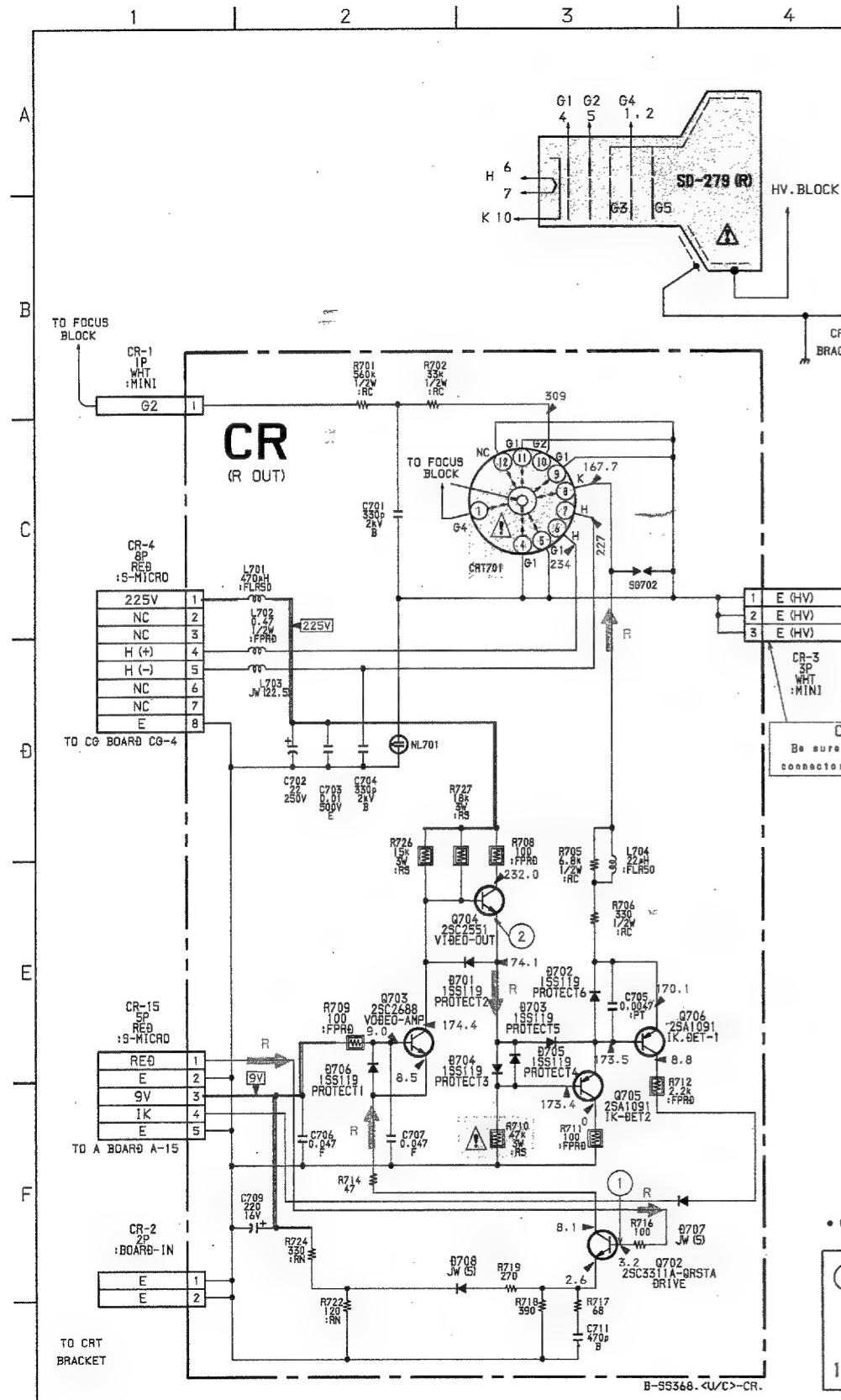
D [REGISTRATION,
DEFLECTION,
V- OUT, SUB-OUT]

- D BOARD -



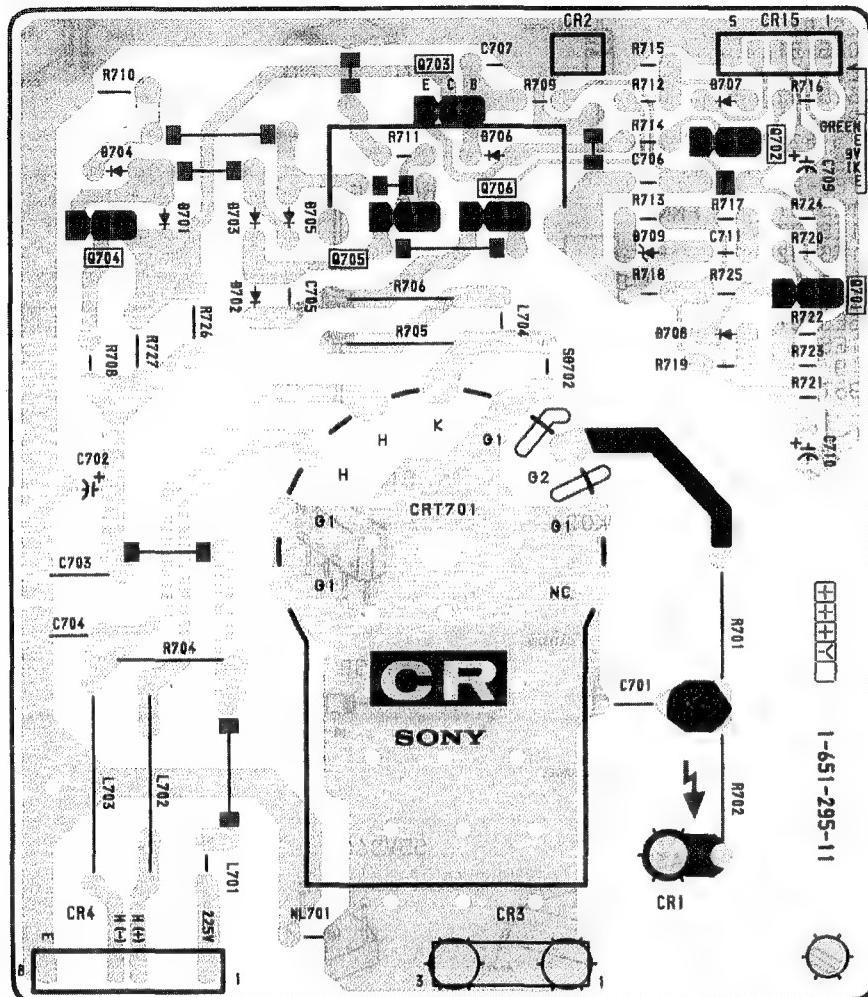
D BOA

IC	VARIABLE RESISTOR	RV956	C -
IC901	C - 3	RV957	D -
IC902	B - 6	RV958	D -
IC903	B - 8	RV959	C -
IC904	B - 8	RV960	E -
IC905	B - 9	RV961	E -
IC906	B - 9	RV962	E -
IC907	D - 4	RV963	C -
IC908	C - 3	RV964	D -
IC910	B - 5	RV965	D -
IC1701	A - 2	RV966	E -
IC1702	C - 2	RV967	E -
IC1703	E - 1	RV968	C -
IC1704	B - 1	RV969	D -
IC1705	E - 1	RV970	D -
IC1706	B - 10	RV971	E -
IC1707	D - 10	RV972	E -
IC1708	E - 9	RV973	E -
IC1709	E - 10	RV974	E -
IC1710	C - 10	RV975	E -
IC1714	B - 3	RV976	E -
IC1715	B - 4	RV977	E -
IC1718	B - 4	RV978	E -
TRANSISTOR		RV979	E -
Q209	A - 5	RV980	E -
Q906	A - 9	RV981	E -
Q907	A - 9	RV982	D -
Q908	A - 4		
Q909	B - 9		
Q910	B - 10		
Q911	B - 10		
Q912	B - 9		
DIODE			
D1701	B - 1		
D1702	C - 5		
D1703	C - 1		
D1704	B - 10		
D1705	D - 10		
D1706	E - 10		
D1707	A - 9		
D1708	A - 9		
D1709	E - 9		
D1710	C - 10		
D1711	A - 4		
D1712	A - 4		
D1713	C - 5		
D1714	B - 6		
D1715	B - 6		
D1716	C - 4		
D1717	C - 4		
D1718	C - 3		
D1720	B - 4		
D1721	B - 4		
D1722	A - 4		
D1723	A - 4		

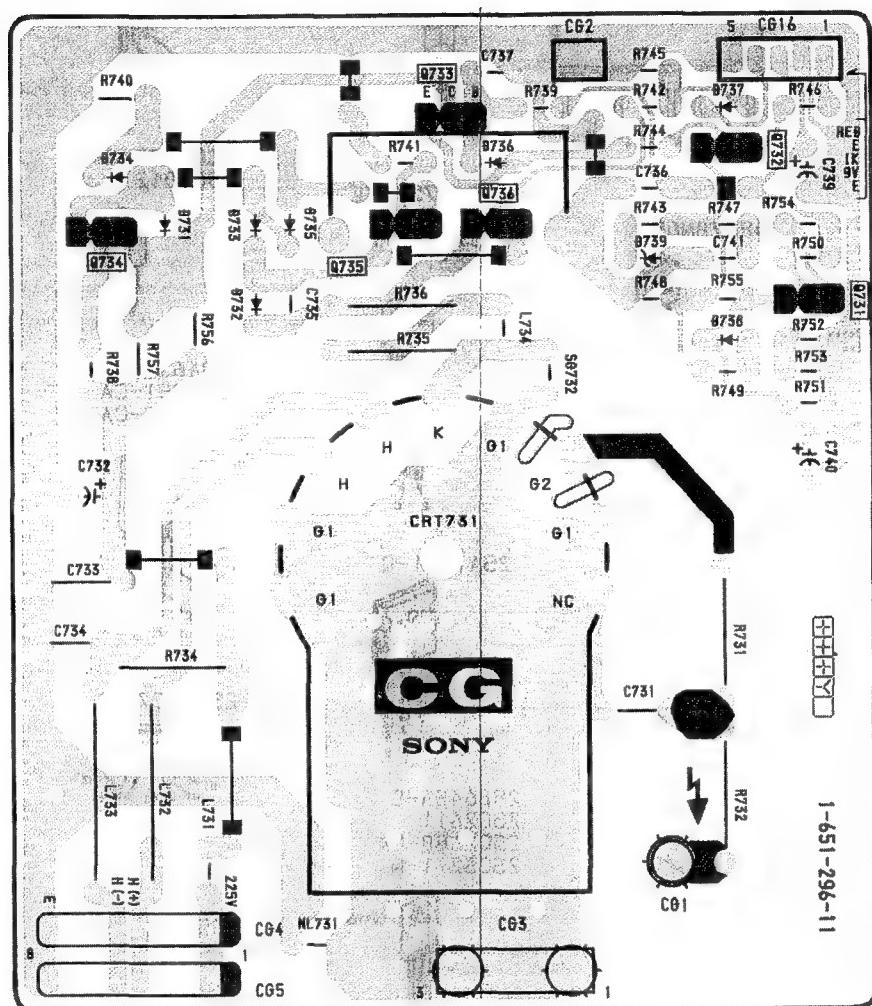


CR [R OUT] **CG** [G OUT] **CB** [B OUT]

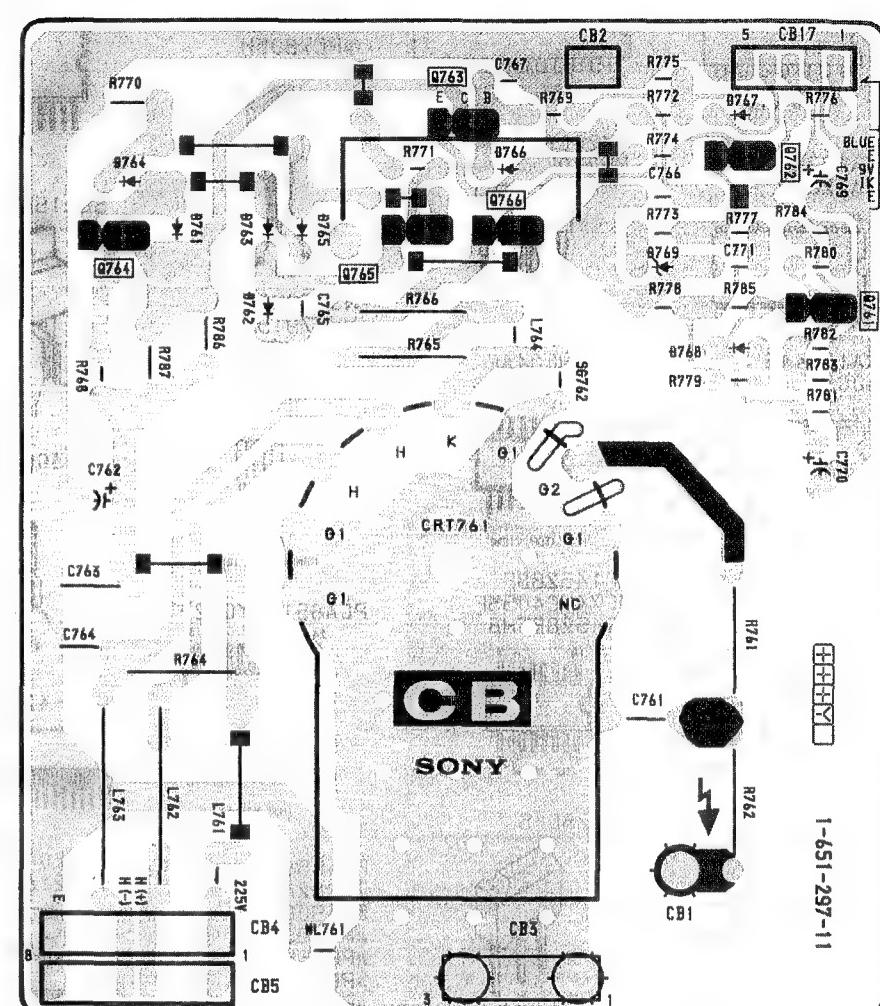
- CR BOARD -



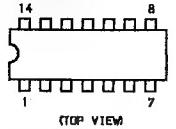
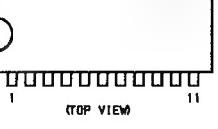
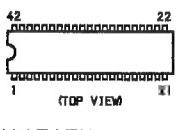
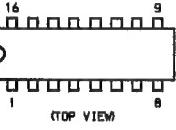
- CG BOARD -



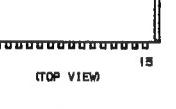
- CB BOARD -



6-5. SEMICONDUCTORS

CA0007AD
LM324N
MB3614
 μ PC1394CCXA1656S
LA7945CXA1228S
CXA1268PCXA1264AS
PA0036CXA1315M
CXA1315P
MC141053BCP
 μ P04053BC

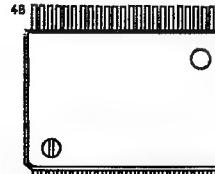
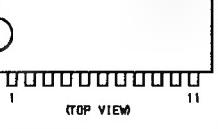
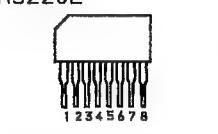
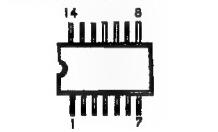
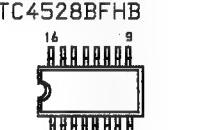
CXA1387S



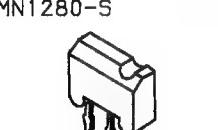
CXA1464AS



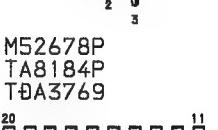
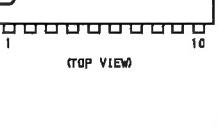
CXA154AS

NJM78M05FA
TA7805S
TA7812S
 μ PC2415HF
 μ PC7893AH
 μ PC2405HF
 μ PC7805H
 μ PC7812HCX20061
M5220LMC33174M
MC74HC04AF
SN74HC05ANSMC14528BF
MC74HC4053F
TC4528BFHB

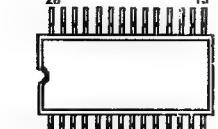
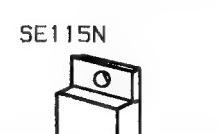
PCA8510T/012-T



MN1280-S

M52678P
TA8184P
TDA3769

CXA154AS

SDA9187X
S0A9188X μ PC1498H

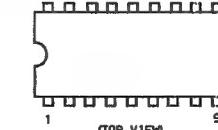
SE115N



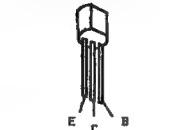
SI-3090CA



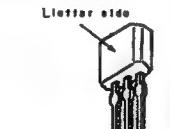
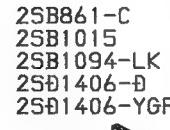
STK-4278L

TA8200AH
TA8216HRC4558P
TL082ACP
S0A9086-3RC4558PS
 μ PC4558G2TDA2595/V9
Z8612812PSC

XN4401

2SA1013-0
2SA1091-0
2SA1208-S
2SA1837
2SC2551-0
2SD788-5

2SC2555-2

2SC4582-NP
2SD20122SA1175-HFE
2SA1309A
2SC2785-HFE
2SC3311A2SB4632-CB7
2SC4891-CA
2SD1887-CA

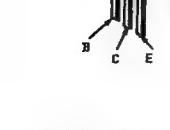
2SA1301-0



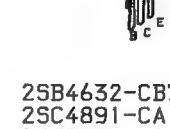
2SC4927-01

2SB649A-C
2SC2611
2SC2688-LK
2SC3271-N

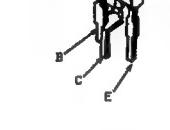
D1N20R



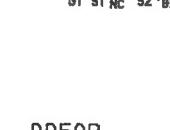
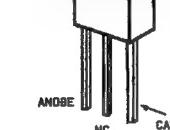
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2SA1301-0



2SC4927-01

2SB649A-C
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2SC2688-LK
2SC3271-N

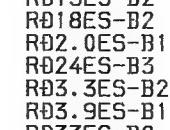
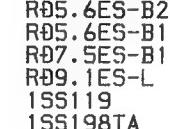
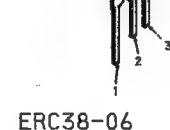
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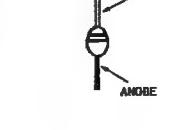
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2SB649A-C
2SC2611
2SC2688-LK
2SC3271-N

ERC06-15S

R03.3M-B1
R0155SB
R05.6S-B
R06.2S-B
R06.8M-B1R03.3M-B1
R0155SB
R05.6S-B
R06.2S-B
R06.8M-B1GP080
ER028-085
EL1Z
RGP10PKG23
R027FB2
RU-3AM
SB140D10SC6M
D5KC40H

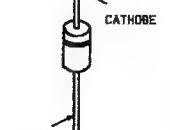
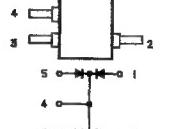
D10SC6MR



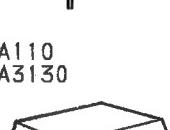
D10SC6MR



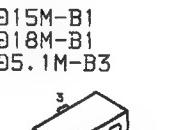
D10SC6MR

R03.3M-B1
R0155SB
R05.6S-B
R06.2S-B
R06.8M-B1R03.3M-B1
R0155SB
R05.6S-B
R06.2S-B
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R05.6S-B
R06.2S-B
R06.8M-B1

S1VB40



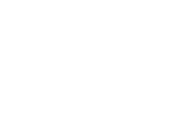
S3V10SB



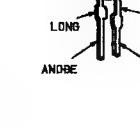
S5VB60



1T33



TLR124



TLR124



SECTION 7

EXPLODED VIEWS

NOTE:

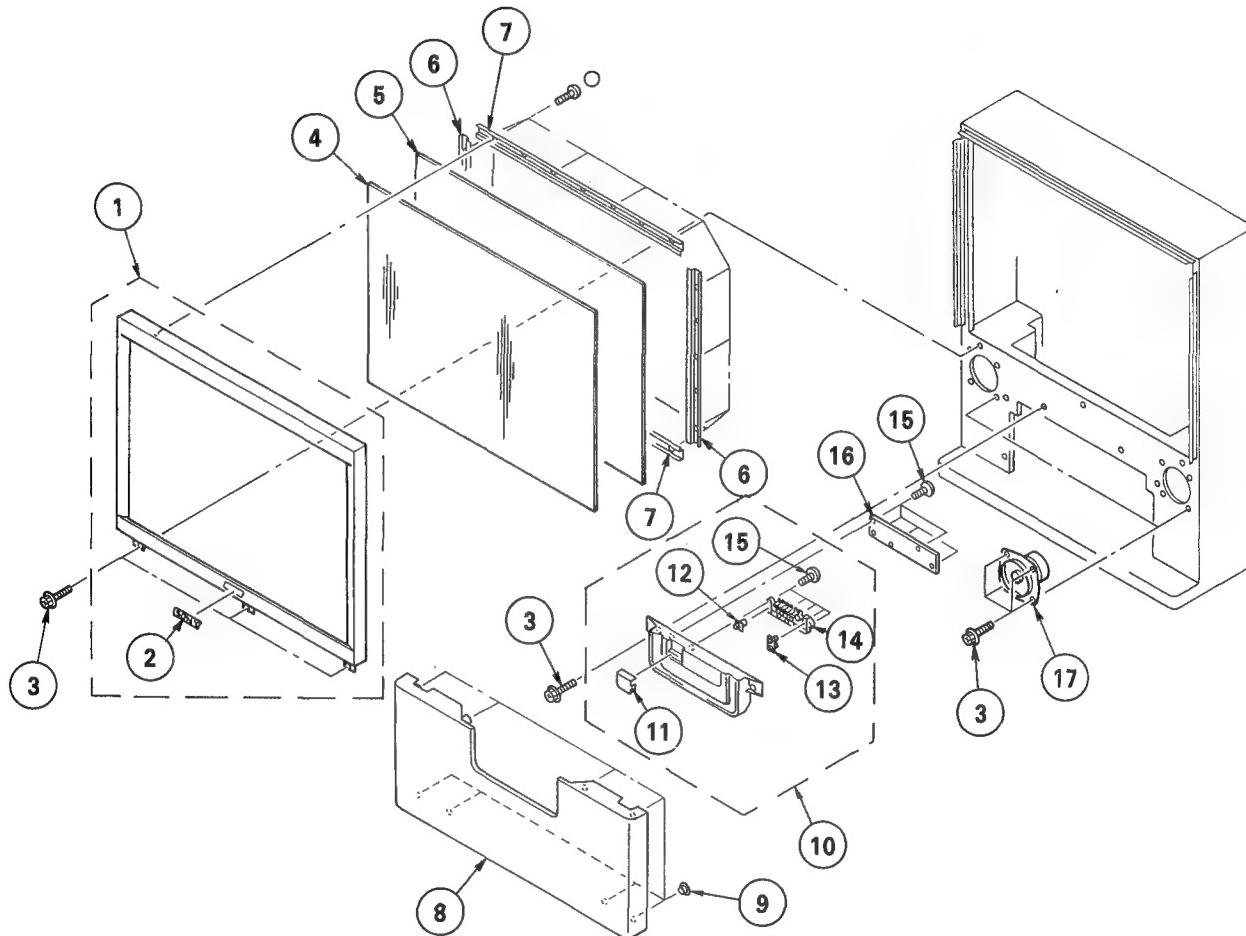
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité
Ne les remplacer que par une pièce portant le numéro spécifié

7-1-1. SCREEN FRAME AND CONTROL PANEL (KP-46S55 only)

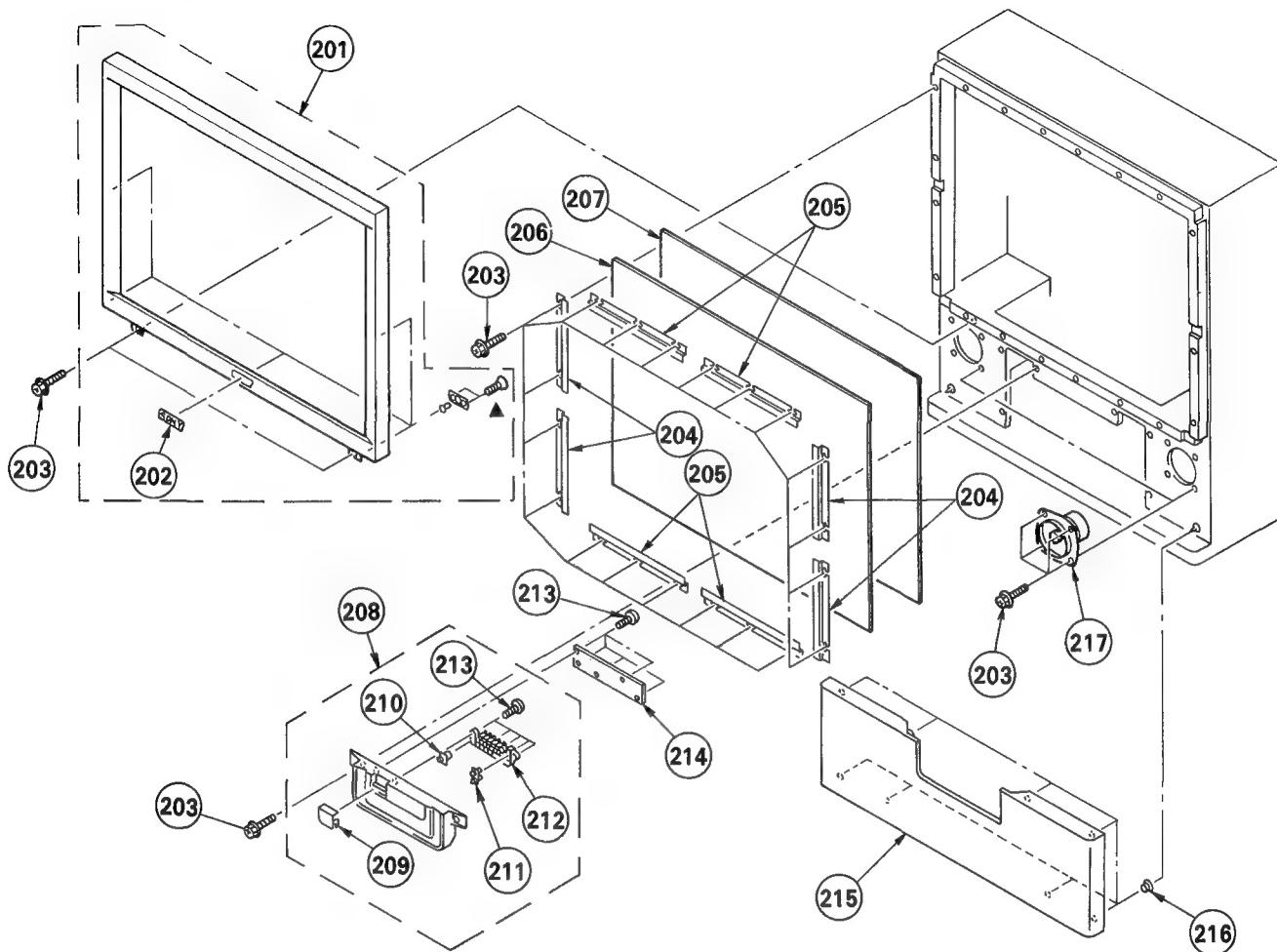
○ : BVTP4 x 12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4031-693-1	FRAME ASSY, SCREEN		2	10	PANEL ASSY, CONTROL	
2	4-381-079-01	EMBLEM (NO.10), SONY		11	4-043-782-01	LID, CONTROL	11-15
3	4-041-164-11	SCREW (4X20), TAPPING		12	4-043-777-01	FILTER, REMOTE	
4	4-037-360-11	PLATE (L), DIFFUSION		13	4-043-779-01	GUIDE, LED	
5	4-037-359-11	PLATE (F), DIFFUSION		14	4-043-786-01	BUTTON, CONTROL	
6	*4-036-092-21	HOLDER (S), SCREEN		15	4-041-165-01	SCREW (3X12), TAPPING, +BV	
7	*4-036-091-21	HOLDER (L), SCREEN		16	*1-651-293-11	H BOARD	
8	X-4031-692-1	GRILLE ASSY (46), SPEAKER		17	1-504-533-11	SPEAKER (16CM)	
9	4-838-438-00	LATCH					

7-1-2. SCREEN FRAME AND CONTROL PANEL (KP-53S55 only)

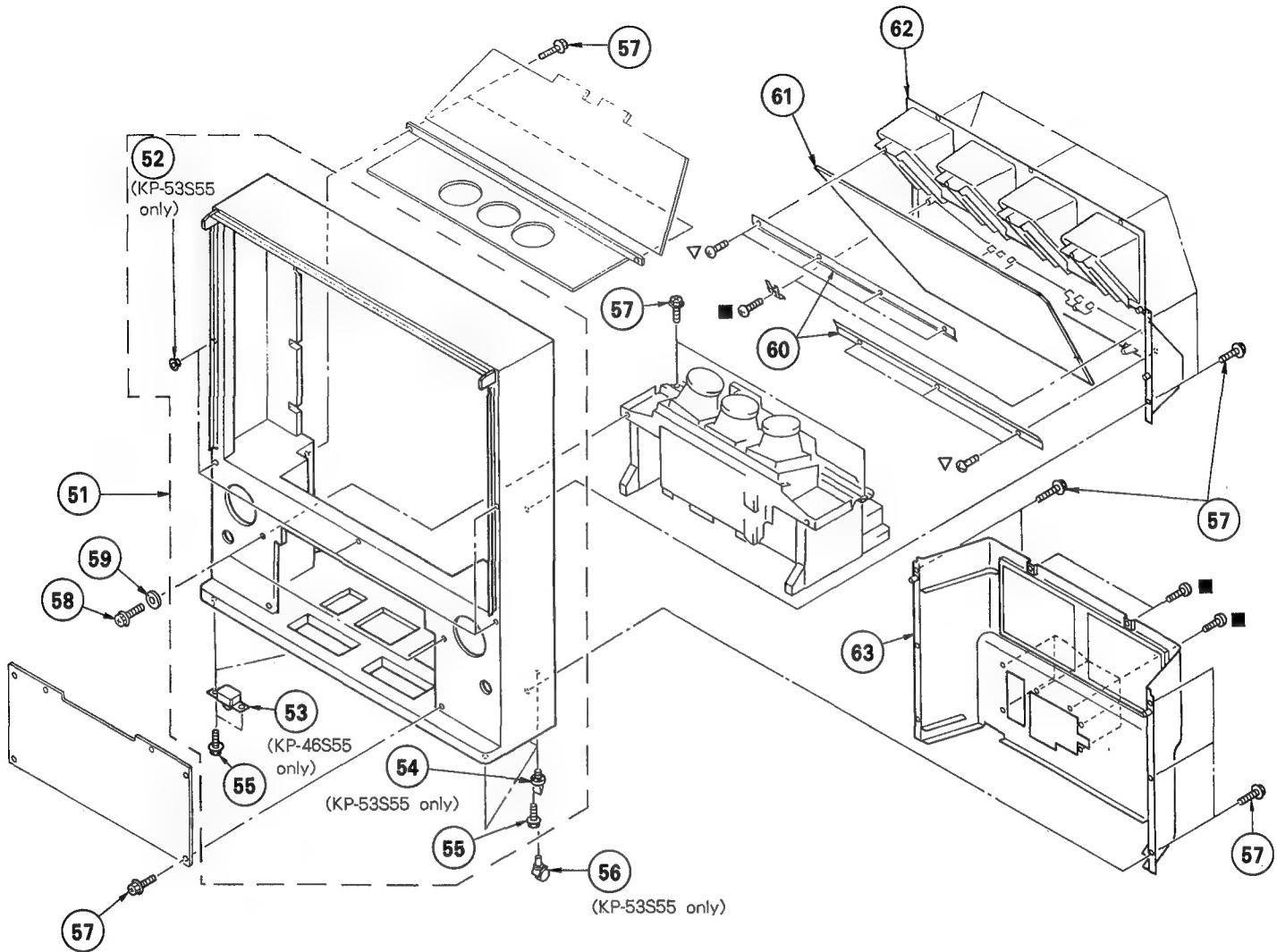
▲ : KTP3 × 10 7-685-247-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
201	X-4031-764-1	FRAME ASSY, SCREEN		202	210	FILTER, REMOTE	
202	4-381-079-01	EMBLEM (NO.10), SONY		211	4-043-779-01	GUIDE, LED	
203	4-041-164-11	SCREW (4X20), TAPPING		212	4-043-786-01	BUTTON, CONTROL	
204	*4-036-499-11	HOLDER (S), SCREEN		213	4-041-165-01	SCREW (3X12), TAPPING, +BV	
205	*4-036-498-11	HOLDER (L), SCREEN		214	*1-651-293-11	H BOARD	
206	4-036-466-01	PLATE (L), DIFFUSION		215	X-4031-763-1	GRILLE ASSY, SPEAKER	
207	4-036-469-01	PLATE (R), DIFFUSION		216	4-838-438-00	LATCH	
208	X-4031-690-1	PANEL ASSY, CONTROL	209-213	217	1-504-533-11	SPEAKER (16CM)	
209	4-043-782-01	LID, CONTROL					

7-2. CABINET

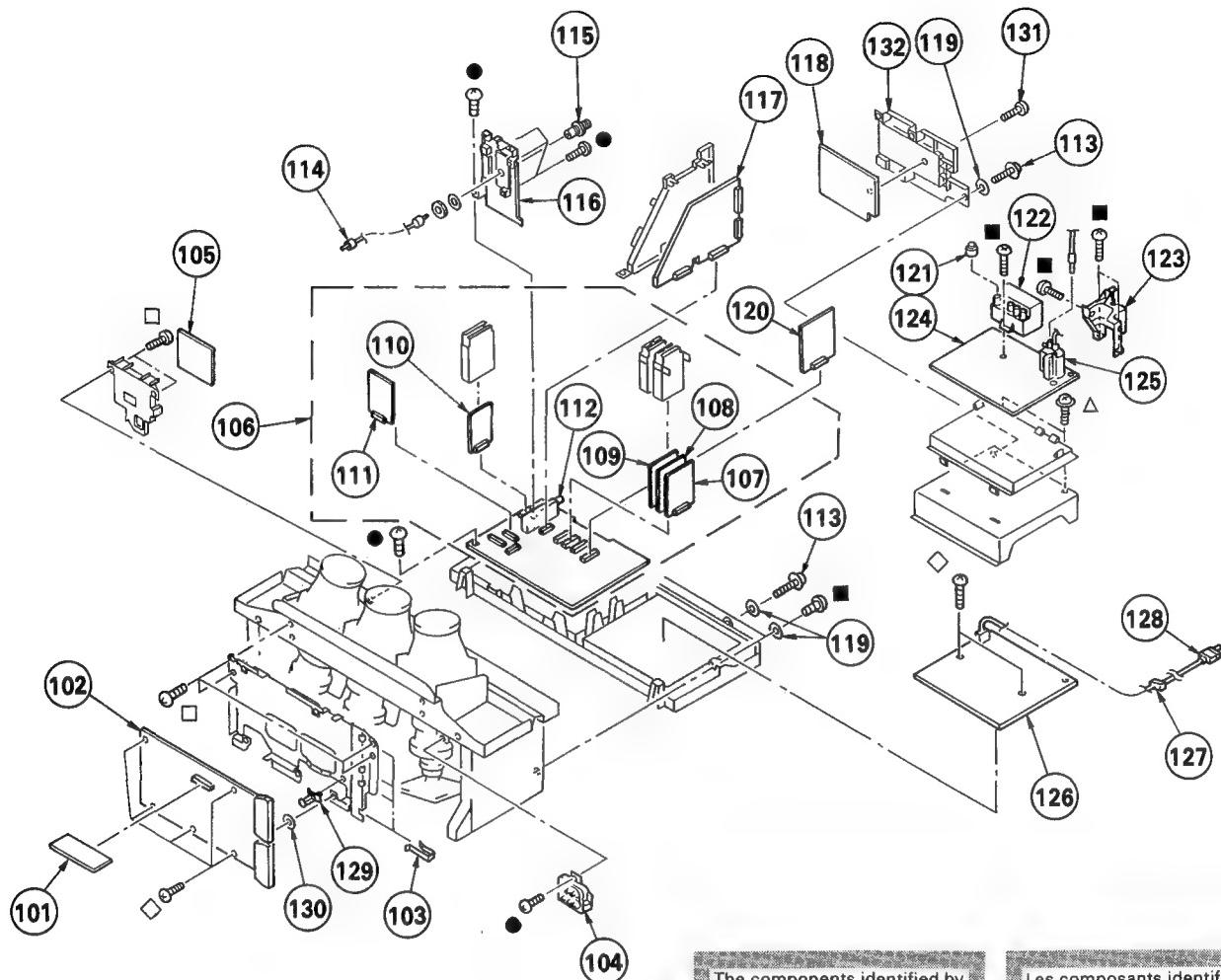
■ : TAPPING SCREW (DIA. 4 x 16) 3-703-251-11
 ▽ : TAPPING SCREW (DIA. 4 x 12) 3-703-251-21



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4031-691-1	CABINET ASSY (KP-46S55)		58	4-378-522-11	SCREW, TAPPING, HEXAGON HEAD	
	X-4031-762-1	CABINET ASSY (KP-53S55)	52, 54, 55	59	4-042-666-01	WASHER	
52	4-838-438-00	LATCH (KP-53S55)		60	*4-037-351-01	HOLDER, MIRROR	
53	4-040-755-01	CASTER (DIA. 30) (KP-46S55)		61	4-037-349-01	MIRROR (53), REFLECTION (KP-53S55)	
54	4-030-850-01	SOCKET, CASTER (KP-53S55)		54	4-037-534-01	MIRROR (46), REFLECTION (KP-46S55)	
55	4-041-164-01	SCREW (4X20), TAPPING		62	4-036-462-01	COVER (46"), MIRROR (KP-46S55)	
56	4-032-343-11	CASTER (KP-53S55)		63	4-036-474-01	COVER (53"), MIRROR (KP-53S55)	
57	4-041-164-11	SCREW (4X20), TAPPING	(KP-53S55 only)	63	X-4030-549-1	COVER ASSY, BACK	

7-3. CHASSIS

- : BVTP3 × 12 7-685-648-79
- : BVTP4 × 12 7-685-661-14
- △ : PSW4 × 14 7-682-963-09
- : TAPPING SCREW (DIA. 4 × 16) 3-703-251-11
- ◇ : WASHER HAED SCREW (+ P3 × 12) 4-302-428-03



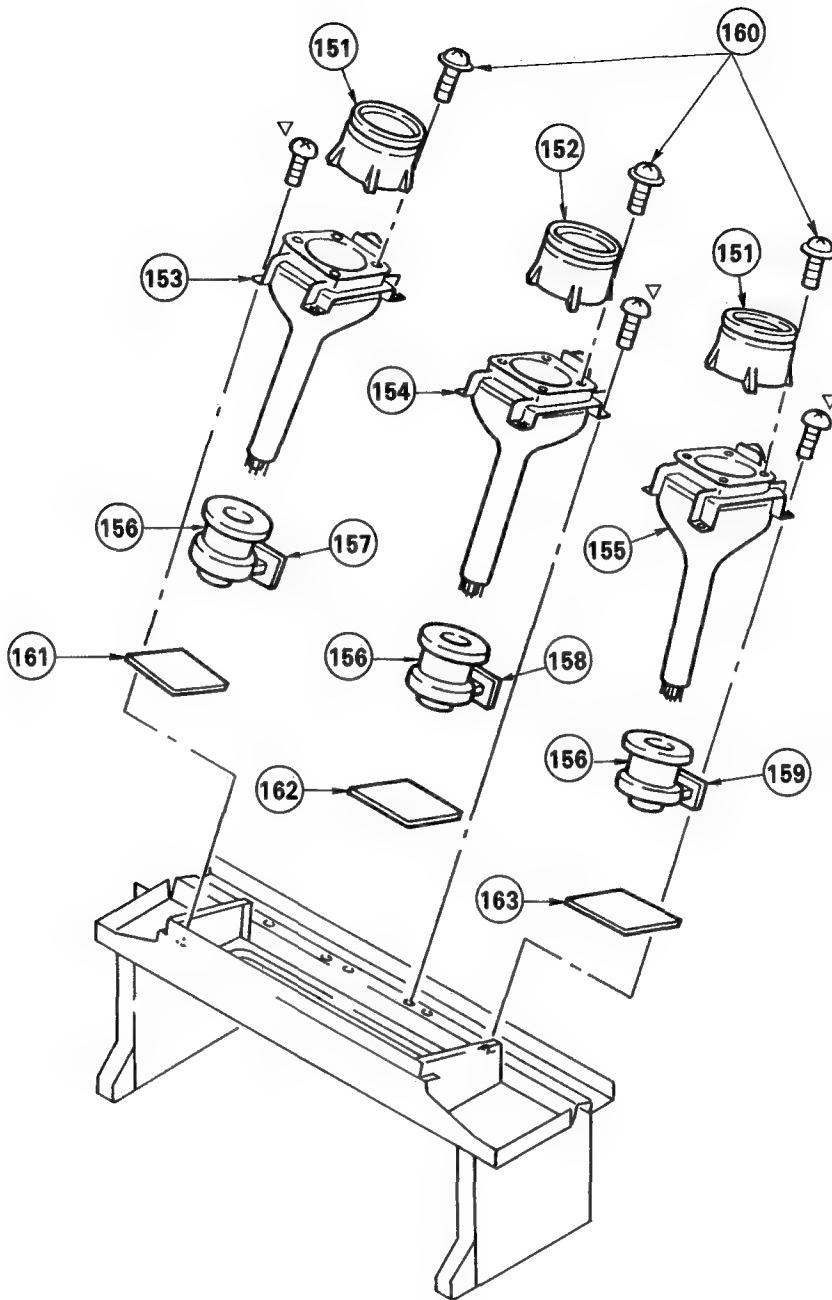
The components identified by shading and mark △ are critical for safety
Replace only with part number specified

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité
Ne les remplacer que par une pièce portant le numéro spécifié

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	*1-650-883-11	D BOARD		117	*A-1394-534-A	U BOARD, COMPLETE	
102	*A-1341-751-A	D BOARD, COMPLETE		118	*A-1373-461-A	UT BOARD, COMPLETE	
103	*4-393-401-11	SPRING, TRANSISTOR		119	4-039-112-01	WASHER, WAVE (KP-46S55)	
104	△1-241-744-11	RESISTOR ASSY (HIGH-VOLTAGE)		120	4-042-667-01	WASHER, WAVE (KP-53S55)	
105	*A-1394-535-A	S BOARD, COMPLETE		120	*A-1373-463-A	V BOARD, COMPLETE	
106	*A-1297-238-A	A BOARD, COMPLETE (KP-53S55)		121	4-373-137-01	CAP (Z), RUBBER	
	*A-1297-239-A	A BOARD, COMPLETE (KP-46S55)		122	△1-453-108-11	DC BLOCK, HIGH-VOLTAGE	
107	*A-1346-138-A	E1 BOARD, COMPLETE		123	4-034-482-01	COVER, FBT	
108	*A-1346-137-A	E2 BOARD, COMPLETE		124	*A-1390-415-A	N BOARD, COMPLETE	
109	*A-1306-457-A	M BOARD, COMPLETE		125	△8-598-939-00	TRANSFORMER ASSY, FLYBACK (NX-2631//A4S)	
110	*A-1195-084-A	P1 BOARD, COMPLETE		126	*A-1316-180-A	G BOARD, COMPLETE	
111	*A-1394-532-A	Y2 BOARD, COMPLETE		127	△4-388-328-12	GROMMET, AC CORD	
112	△A-693-102-22	TUNER (BTF-XA401)		128	△1-696-002-12	CORD, POWER(WITH NOISE FILTER) 7.0A/125V	
113	3-701-810-91	SCREW, TERMINAL		129	*3-670-570-21	SPACER, SUPPORT	
114	*1-555-400-00	CABLE, PIN		130	4-866-147-00	WASHER	
115	1-561-306-00	JACK, PIN (F)		131	4-041-165-01	SCREW (3X12), TAPPING, +BV	
116	4-036-137-01	PANEL, SUB CONNECTOR		132	4-036-138-01	PANEL, MAIN CONNECTOR	

7-4. PICTURE TUBE

▽ : TAPPING SCREW (DIA 4 x 12) 3-703-251-21



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT)		157	*A-1390-412-A	ZR BOARD, COMPLETE	
152	4-034-057-11	LENS (LINNIT)		158	*A-1390-413-A	ZG BOARD, COMPLETE	
153	△ 8-736-074-05	PICTURE TUBU 07MAB2(R)		159	*A-1390-414-A	ZB BOARD, COMPLETE	
154	△ 8-736-072-05	PICTURE TUBU 07MAB2(G)		160	3-701-810-91	SCREW, TERMINAL	
155	△ 8-736-073-05	PICTURE TUBU 07MAB2(B)		161	*A-1331-337-A	CR BOARD, COMPLETE	
156	△ 8-451-441-11	DEFLECTION YOKE Y829PA		162	*A-1331-338-A	CG BOARD, COMPLETE	
				163	*A-1331-339-A	CB BOARD, COMPLETE	

A

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : $\mu\mu$ F • MMH : mH, UH : μ H

- The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
*A-1297-238-A	A BOARD, COMPLETE (KP-53S55)			C544	1-136-153-00	FILM	0.01MF 5% 50V				
	*****			C545	1-136-153-00	FILM	0.01MF 5% 50V				
*A-1297-239-A	A BOARD, COMPLETE (KP-46S55)			C569	1-126-355-11	ELECT	33MF 20% 160V				
	*****			C1401	1-124-910-11	ELECT	47MF 20% 50V				
4-365-216-00	SPACER, MICA			C1402	1-124-907-11	ELECT	10MF 20% 50V				
4-382-854-11	SCREW (M3X10), P, SW (+)			C1403	1-124-907-11	ELECT	10MF 20% 50V				
				C1404	1-124-907-11	ELECT	10MF 20% 50V				
				C1405	1-124-910-11	ELECT	47MF 20% 50V				
<CAPACITOR>											
C201	1-124-910-11	ELECT	47MF 20% 50V	C1406	1-126-101-11	ELECT	100MF 20% 16V				
C202	1-124-903-11	ELECT	1MF 20% 50V	C1407	1-126-057-11	ELECT	2200MF 20% 50V				
C203	1-130-495-00	MYLAR	0.1MF 5% 50V	C1408	1-136-165-00	FILM	0.1MF 5% 50V				
C204	1-124-477-11	ELECT	47MF 20% 16V	C1409	1-136-165-00	FILM	0.1MF 5% 50V				
C205	1-124-557-11	ELECT	1000MF 20% 25V	C1413	1-126-233-11	ELECT	22MF 20% 25V				
C206	1-126-101-11	ELECT	100MF 20% 16V	C1424	1-126-057-11	ELECT	2200MF 20% 50V				
C207	1-124-286-00	ELECT	33MF 20% 16V	C1425	1-126-057-11	ELECT	2200MF 20% 50V				
C210	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C1426	1-124-907-11	ELECT	10MF 20% 50V				
C212	1-126-803-11	ELECT	47MF 20% 16V	C1429	1-126-101-11	ELECT	100MF 20% 16V				
C213	1-126-103-11	ELECT	470MF 20% 16V	C1430	1-126-101-11	ELECT	100MF 20% 16V				
C214	1-126-101-11	ELECT	100MF 20% 16V	C1431	1-124-916-11	ELECT	22MF 20% 50V				
C215	1-126-803-11	ELECT	47MF 20% 50V	C1435	1-126-233-11	ELECT	22MF 20% 25V				
C216	1-126-101-11	ELECT	100MF 20% 16V	C1440	1-126-336-11	ELECT	220MF 20% 25V				
C217	1-126-803-11	ELECT	47MF 20% 25V	C1601	1-130-483-00	MYLAR	0.01MF 5% 50V				
C218	1-126-103-11	ELECT	470MF 20% 16V	C1609	1-136-153-00	FILM	0.01MF 5% 50V				
C219	1-124-443-00	ELECT	100MF 20% 10V	<CONNECTOR>							
C220	1-126-803-11	ELECT	47MF 20% 25V	A1	*1-564-513-11	PLUG, CONNECTOR 10P					
C223	1-126-803-11	ELECT	47MF 20% 25V	A2	*1-564-512-11	PLUG, CONNECTOR 9P					
C224	1-124-907-11	ELECT	10MF 20% 50V	A3	*1-564-507-11	PLUG, CONNECTOR 4P					
C225	1-124-120-11	ELECT	220MF 20% 16V	A5	*1-564-511-11	PLUG, CONNECTOR 8P					
C227	1-124-621-11	ELECT	3300MF 20% 6.3V	A9	*1-564-505-11	PLUG, CONNECTOR 2P					
C299	1-126-101-11	ELECT	100MF 20% 16V	A10	*1-564-511-11	PLUG, CONNECTOR 8P					
C502	1-126-182-11	ELECT	0.47MF 20% 50V	A11	*1-564-511-11	PLUG, CONNECTOR 8P					
C503	1-130-487-00	MYLAR	0.022MF 5% 50V	A12	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P					
C507	1-106-383-00	MYLAR	0.047MF 20% 200V	A13	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P					
C508	1-102-973-00	CERAMIC	100PF 5% 50V	A14	*1-564-513-11	PLUG, CONNECTOR 10P					
C509	1-102-030-00	CERAMIC	330PF 10% 500V	A15	*1-564-508-11	PLUG, CONNECTOR 5P					
C510	Δ 1-136-565-11	FILM	0.015MF 3% 1.4KV	A16	*1-564-508-11	PLUG, CONNECTOR 5P					
C512	Δ 1-136-598-11	FILM	3MF 5% 200V	A17	*1-564-508-11	PLUG, CONNECTOR 5P					
C513	1-136-153-00	FILM	0.01MF 5% 50V	A18	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P					
C514	1-124-477-11	ELECT	47MF 20% 16V	A19	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P					
C522	1-123-024-21	ELECT	33MF 160V	A20	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P					
C523	1-106-383-00	MYLAR	0.047MF 200V	A21	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P					
C528	1-124-662-11	ELECT	220MF 20% 50V	A22	1-573-297-21	CONNECTOR, BOARD TO BOARD 18P					
C534	1-124-011-00	ELECT	220MF 20% 16V	A27	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P					
C535	1-124-011-00	ELECT	220MF 20% 16V	A38	1-564-505-11	PLUG, CONNECTOR 2P					
C536	1-124-662-11	ELECT	220MF 20% 50V	A56	*1-564-508-11	PLUG, CONNECTOR 5P					
C537	1-124-662-11	ELECT	220MF 20% 50V								
C539	1-124-907-11	ELECT	10MF 20% 50V								
C542	1-136-153-00	FILM	0.01MF 5% 50V								
C543	1-136-153-00	FILM	0.01MF 5% 50V								

A

The components identified by shading and mark **A** are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<DIODE>											
D203	8-719-911-19	DIODE ISS119		L502	1-459-313-00	COIL WITH CORE (HWC)					
D204	8-719-911-19	DIODE ISS119		L502	1-459-313-00	COIL WITH CORE (HWC)					
D205	8-719-110-36	DIODE RD13ESB2		L515	1-410-645-31	INDUCTOR 100UH					
D206	8-719-911-19	DIODE ISS119		<TRANSISTOR>							
D207	8-719-911-19	DIODE ISS119		Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D208	8-719-911-19	DIODE ISS119		Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D209	8-719-911-19	DIODE ISS119		Q203	8-729-119-76	TRANSISTOR 2SA1175-HFE					
D211	8-719-110-36	DIODE RD13ESB2		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK					
D213	8-719-110-78	DIODE RD33ESB2		Q502	8-729-014-88	TRANSISTOR 2SC4891-CA					
D214	8-719-911-19	DIODE ISS119		Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D216	8-719-911-19	DIODE ISS119		Q505	8-729-201-32	TRANSISTOR 2SA1013-0					
D217	8-719-911-19	DIODE ISS119		Q506	8-729-201-32	TRANSISTOR 2SA1013-0					
D219	8-719-911-19	DIODE ISS119		Q507	8-729-304-92	TRANSISTOR 2SB649A-C					
D220	8-719-510-48	DIODE DIN20R		Q508	8-729-204-16	TRANSISTOR 2SA1301-0					
D221	8-719-911-19	DIODE ISS119		Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D222	8-719-911-19	DIODE ISS119		Q510	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D223	8-719-911-19	DIODE ISS119		Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE					
D501	8-719-971-20	DIODE ERC38-06		Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D502	8-719-971-20	DIODE ERC38-06		Q1402	8-729-900-63	TRANSISTOR DTA124ES					
D503	8-719-300-80	DIODE RU-1C		Q1407	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D504	8-719-109-88	DIODE RD5.6ESB1		Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D505	8-719-900-63	DIODE V06C (KP-46S55)		Q1620	8-729-119-76	TRANSISTOR 2SA1175-HFE					
D506	8-719-900-63	DIODE V06C (KP-46S55)		<RESISTOR>							
D507	8-719-970-89	DIODE DD50R		R203	1-249-425-11	CARBON 4.7K 5% 1/4W					
D509	8-719-911-19	DIODE ISS119		R204	1-249-441-11	CARBON 100K 5% 1/4W					
D510	8-719-109-71	DIODE RD3.9ESB1		R214	1-249-429-11	CARBON 10K 5% 1/4W					
D511	8-719-911-19	DIODE ISS119		R215	1-249-437-11	CARBON 47K 5% 1/4W					
D512	8-719-911-19	DIODE ISS119		R216	1-249-377-11	CARBON 0.47 5% 1/4W F					
D513	8-719-911-19	DIODE ISS119		R219	1-249-426-11	CARBON 5.6K 5% 1/4W					
D514	8-719-911-19	DIODE ISS119		R221	1-249-409-11	CARBON 220 5% 1/4W					
D515	8-719-911-19	DIODE ISS119		R222	1-249-436-11	CARBON 39K 5% 1/4W					
D1401	8-719-911-19	DIODE ISS119		R223	1-249-434-11	CARBON 27K 5% 1/4W					
D1402	8-719-911-19	DIODE ISS119		R224	1-249-409-11	CARBON 220 5% 1/4W					
D1403	8-719-911-19	DIODE ISS119		R225	1-249-417-11	CARBON 1K 5% 1/4W					
D1406	8-719-911-19	DIODE ISS119		R229	A 1-216-488-71	METAL OXIDE 18K 5% 3W R					
D1408	8-719-911-19	DIODE ISS119		R231	1-249-409-11	CARBON 220 5% 1/4W F					
D1410	8-719-911-19	DIODE ISS119		R232	A 1-215-906-71	METAL OXIDE 15 5% 3W R					
D1607	8-719-911-19	DIODE ISS119		R233	1-249-409-11	CARBON 220 5% 1/4W					
D1608	8-719-911-19	DIODE ISS119		R234	1-249-409-11	CARBON 220 5% 1/4W					
JW266	8-719-911-19	DIODE ISS119		R235	1-249-409-11	CARBON 220 5% 1/4W					
<IC>											
IC201	8-749-920-58	IC SI-3090CA		R236	1-249-409-11	CARBON 220 5% 1/4W					
IC204	8-759-231-53	IC TA7805S		R237	1-249-409-11	CARBON 220 5% 1/4W					
IC205	8-759-144-82	IC UPC2405HF		R238	1-249-409-11	CARBON 220 5% 1/4W					
IC206	8-759-231-58	IC TA7812S		R239	1-249-409-11	CARBON 220 5% 1/4W					
IC207	8-749-920-58	IC SI-3090CA		R240	A 1-215-906-71	METAL OXIDE 15 5% 3W F					
IC506	8-752-057-18	IC CXA1315P		R242	A 1-215-906-71	METAL OXIDE 15 5% 3W F					
IC1401	8-759-168-24	IC TA8200AH		R243	A 1-217-294-11	WIREWOUND 4.7 10% 5W F					
<COIL>											
L201	1-408-429-00	INDUCTOR 470UH		R244	A 1-217-296-11	WIREWOUND 6.8 10% 5W F					
L201	1-408-429-00	INDUCTOR 470UH		R296	1-249-417-11	CARBON 1K 5% 1/4W					
L205	1-410-645-31	INDUCTOR 100UH		R501	1-247-895-00	CARBON 470K 5% 1/4W					
L206	1-408-416-00	INDUCTOR 39UH		R502	1-249-377-11	CARBON 0.47 5% 1/4W F					
L206	1-408-416-00	INDUCTOR 39UH		R503	1-249-377-11	CARBON 0.47 5% 1/4W F					
L212	1-410-312-11	INDUCTOR 0.22UH		R504	1-249-417-11	CARBON 1K 5% 1/4W					
L501	A 1-460-196-11	COIL, HORIZONTAL LINEARITY									

A P1

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R505	1-249-423-11	CARBON	3.3K 5% 1/4W	R1439	1-247-883-00	CARBON	150K 5% 1/4W
R506 A	1-215-922-91	METAL OXIDE	6.8K 5% 3W F	R1440	1-249-417-11	CARBON	1K 5% 1/4W
R507	1-249-429-11	CARBON	10K 5% 1/4W F	R1442	1-215-410-00	METAL	360 1% 1/4W
R508 A	1-216-373-91	METAL OXIDE	2.2 5% 2W F	R1443	1-215-410-00	METAL	360 1% 1/4W
R509 A	1-216-478-91	METAL OXIDE	390 5% 3W F	R1520	1-249-429-11	CARBON	10K 5% 1/4W
R511	1-247-811-31	CARBON	150 5% 1/4W	R1602	1-249-417-11	CARBON	1K 5% 1/4W
R512	1-249-421-11	CARBON	2.2K 5% 1/4W F	R1605	1-247-807-31	CARBON	100 5% 1/4W
R513	1-249-417-11	CARBON	1K 5% 1/4W	R1606	1-247-807-31	CARBON	100 5% 1/4W
R514 A	1-215-877-91	METAL OXIDE	22K 5% 1W F	R1610	1-247-807-31	CARBON	100 5% 1/4W
R515	1-249-430-11	CARBON	12K 5% 1/4W F	R1611	1-247-807-31	CARBON	100 5% 1/4W
R516	1-249-417-11	CARBON	1K 5% 1/4W	R1612	1-247-807-31	CARBON	100 5% 1/4W
R517	1-249-426-11	CARBON	5.6K 5% 1/4W F	R1614	1-249-411-11	CARBON	330 5% 1/4W
R518	1-249-425-11	CARBON	4.7K 5% 1/4W F	R1630	1-249-434-11	CARBON	27K 5% 1/4W
R519	1-249-417-11	CARBON	1K 5% 1/4W F	R1631	1-249-433-11	CARBON	22K 5% 1/4W
R520 A	1-215-925-91	METAL OXIDE	22K 5% 3W F				
R521 A	1-215-925-91	METAL OXIDE	22K 5% 3W F				
R522	1-249-421-11	CARBON	2.2K 5% 1/4W				
R523	1-249-434-11	CARBON	27K 5% 1/4W				
R524	1-249-434-11	CARBON	27K 5% 1/4W				
R525 A	1-215-922-91	METAL OXIDE	6.8K 5% 3W F				
R526	1-249-417-11	CARBON	1K 5% 1/4W				
R528 A	1-216-447-91	METAL OXIDE	27 5% 2W F				
R529 A	1-216-447-91	METAL OXIDE	27 5% 2W F				
R530	1-249-431-11	CARBON	15K 5% 1/4W				
R531	1-249-431-11	CARBON	15K 5% 1/4W				
R532	1-249-385-11	CARBON	2.2 5% 1/4W F				
R533	1-249-429-11	CARBON	10K 5% 1/4W				
R534	1-249-429-11	CARBON	10K 5% 1/4W				
R536 A	1-217-315-11	WIREWOUND	270 10% 5W F				
R537 A	1-217-315-11	WIREWOUND	270 10% 5W F				
		(KP-46S55)					
		(KP-46S55)					
R550	1-249-385-11	CARBON	2.2 5% 1/4W F				
R558	1-249-385-11	CARBON	2.2 5% 1/4W F				
R559	1-249-409-11	CARBON	220 5% 1/4W				
R560	1-249-409-11	CARBON	220 5% 1/4W				
R565	1-249-427-11	CARBON	6.8K 5% 1/4W				
R566	1-249-427-11	CARBON	6.8K 5% 1/4W				
R567	1-249-427-11	CARBON	6.8K 5% 1/4W				
R568	1-249-427-11	CARBON	6.8K 5% 1/4W				
R569	1-249-426-11	CARBON	5.6K 5% 1/4W				
R570	1-249-441-11	CARBON	100K 5% 1/4W				
R571	1-249-429-11	CARBON	10K 5% 1/4W				
R572	1-249-429-11	CARBON	10K 5% 1/4W				
R579	1-249-417-11	CARBON	1K 5% 1/4W				
R1401	1-215-445-00	METAL	10K 1% 1/4W				
R1402	1-215-445-00	METAL	10K 1% 1/4W				
R1403	1-215-445-00	METAL	10K 1% 1/4W				
R1404	1-215-445-00	METAL	10K 1% 1/4W				
R1405	1-249-385-11	CARBON	2.2 5% 1/4W				
R1406	1-249-385-11	CARBON	2.2 5% 1/4W				
R1409	1-249-433-11	CARBON	22K 5% 1/4W				
R1410	1-249-433-11	CARBON	22K 5% 1/4W				
R1411	1-249-437-11	CARBON	47K 5% 1/4W				
R1427 A	1-215-865-91	METAL OXIDE	220 5% 1W F				
R1428 A	1-215-865-91	METAL OXIDE	220 5% 1W F				
R1431	1-247-807-31	CARBON	100 5% 1/4W				
R1433	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1434	1-249-423-11	CARBON	3.3K 5% 1/4W				

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C3025	1-164-343-11	CERAMIC CHIP 0.056MF	10%	25V	IC3004	8-759-248-15	IC SDA9187-2XGEG
C3026	1-126-163-11	ELECT 4.7MF	20%	50V	IC3005	8-759-192-90	IC SDA9188-3XGEG
C3027	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	IC3006	8-759-112-06	IC UPC78N05H
C3028	1-124-589-11	ELECT 47MF	20%	16V	IC3007	8-759-248-91	IC SDA9086-5
C3029	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	IC3008	8-759-112-06	IC UPC78N05H
C3030	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	<COIL>		
C3031	1-126-177-11	ELECT 100MF	20%	6.3V	L3001	1-410-476-11	INDUCTOR 33UH
C3032	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L3002	1-408-424-00	INDUCTOR 180UH
C3033	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L3003	1-408-424-00	INDUCTOR 180UH
C3034	1-164-336-11	CERAMIC CHIP 0.33MF		25V	L3004	1-410-470-11	INDUCTOR 10UH
C3035	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	L3005	1-410-472-41	INDUCTOR 15UH
C3036	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L3006	1-412-788-41	INDUCTOR 10UH
C3037	1-124-589-11	ELECT 47MF	20%	16V	L3007	1-410-472-41	INDUCTOR 15UH
C3038	1-136-287-11	FILM 0.0047MF	5%	50V	L3008	1-410-472-41	INDUCTOR 15UH
C3039	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L3009	1-410-472-41	INDUCTOR 15UH
C3040	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	L3010	1-410-466-41	INDUCTOR 4.7UH
C3041	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	L3011	1-410-470-11	INDUCTOR 10UH
C3042	1-164-346-11	CERAMIC CHIP 1MF		16V	L3012	1-410-676-31	INDUCTOR 150UH
C3043	1-124-465-00	ELECT 0.47MF	20%	50V	L3013	1-412-911-11	INDUCTOR, FERRITE BEAD
C3044	1-126-301-11	ELECT 1MF	20%	50V	L3014	1-412-911-11	INDUCTOR, FERRITE BEAD
C3045	1-124-589-11	ELECT 47MF	20%	16V	L3015	1-412-911-11	INDUCTOR, FERRITE BEAD
C3046	1-126-301-11	ELECT 1MF	20%	50V	L3100	1-410-392-11	INDUCTOR 82UH
C3047	1-126-301-11	ELECT 1MF	20%	50V	<TRANSISTOR>		
C3048	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	Q3003	8-729-216-22	TRANSISTOR 2SA1162-G
C3051	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	Q3004	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3052	1-126-177-11	ELECT 100MF	20%	6.3V	Q3006	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3053	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q3007	8-729-216-22	TRANSISTOR 2SA1162-G
C3054	1-126-177-11	ELECT 100MF	20%	6.3V	Q3008	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3055	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q3009	8-729-216-22	TRANSISTOR 2SA1162-G
C3057	1-124-589-11	ELECT 47MF	20%	16V	Q3010	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3058	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	Q3011	8-729-216-22	TRANSISTOR 2SA1162-G
C3059	1-164-222-11	CERAMIC CHIP 0.22MF		25V	Q3012	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3060	1-124-589-11	ELECT 47MF	20%	16V	Q3013	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3064	1-163-123-00	CERAMIC CHIP 180PF	5%	50V	Q3014	8-729-120-28	TRANSISTOR 2SC1623-L5L6
C3065	1-124-589-11	ELECT 47MF	20%	16V	Q3100	8-729-216-22	TRANSISTOR 2SA1162-G
C3066	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	<RESISTOR>		
C3067	1-124-589-11	ELECT 47MF	20%	16V	JR1	1-216-295-00	METAL GLAZE 0 5% 1/10W
C3069	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	JW2	1-216-295-00	METAL GLAZE 0 5% 1/10W
C3070	1-126-177-11	ELECT 100MF	20%	6.3V	R3001	1-216-085-00	METAL GLAZE 33K 5% 1/10W
C3071	1-124-589-11	ELECT 47MF	20%	16V	R3002	1-216-089-00	METAL GLAZE 47K 5% 1/10W
C3072	1-124-589-11	ELECT 47MF	20%	16V	R3003	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W
C3073	1-124-589-11	ELECT 47MF	20%	16V	R3004	1-216-091-00	METAL GLAZE 56K 5% 1/10W
C3074	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	R3005	1-216-689-11	METAL GLAZE 39K 5% 1/10W
C3076	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R3006	1-216-097-00	METAL GLAZE 100K 5% 1/10W
C3077	1-164-005-11	CERAMIC CHIP 0.47MF		25V	R3007	1-216-079-00	METAL GLAZE 18K 5% 1/10W
C3081	1-163-095-00	CERAMIC CHIP 12PF	5%	50V	R3008	1-216-073-00	METAL GLAZE 10K 5% 1/10W
C3100	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R3009	1-216-041-00	METAL GLAZE 470 5% 1/10W
C3101	1-163-249-11	CERAMIC CHIP 82PF	5%	50V	R3010	1-216-049-00	METAL GLAZE 1K 5% 1/10W
<CONNECTOR>							
CN151	1-573-965-21	PIN, CONNECTOR (PC BOARD)	50P		R3011	1-216-073-00	METAL GLAZE 10K 5% 1/10W
<DIODE>							
D3003	8-719-158-15	DIODE RD5.6SB			R3012	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
D3004	8-719-404-46	DIODE MA110			R3013	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
D3009	8-719-404-46	DIODE MA110			R3014	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
<IC>							
IC3001	8-759-046-25	IC TDA3769			R3015	1-216-049-00	METAL GLAZE 1K 5% 1/10W
IC3002	8-759-009-46	IC MC14528BF			R3017	1-216-083-00	METAL GLAZE 27K 5% 1/10W
IC3003	8-759-513-48	IC TDA2595/V9			R3018	1-216-097-00	METAL GLAZE 100K 5% 1/10W
					R3019	1-216-077-00	METAL GLAZE 15K 5% 1/10W
					R3020	1-216-099-00	METAL GLAZE 120K 5% 1/10W

P1 M

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3021	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R3104	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R3023	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3024	1-216-101-00	METAL GLAZE	150K 5% 1/10W				
R3025	1-216-015-00	METAL GLAZE	39 5% 1/10W				
R3026	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3027	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3028	1-216-027-00	METAL GLAZE	120 5% 1/10W				
R3030	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3031	1-216-047-00	METAL GLAZE	820 5% 1/10W				
R3032	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3033	1-216-295-00	METAL GLAZE	0 5% 1/10W	X3001	1-567-505-11	OSCILLATOR, CRYSTAL	
R3034	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R3035	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R3036	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R3037	1-216-083-00	METAL GLAZE	27K 5% 1/10W				
R3038	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3039	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3040	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3041	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3042	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R3043	1-216-099-00	METAL GLAZE	120K 5% 1/10W				
R3044	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R3045	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R3050	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R3052	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R3053	1-216-037-00	METAL GLAZE	330 5% 1/10W				
R3055	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R3056	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W				
R3057	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R3058	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3059	1-216-079-00	METAL GLAZE	18K 5% 1/10W				
R3060	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3061	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3062	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3063	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R3064	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R3065	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3066	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W				
R3067	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R3069	1-216-689-11	METAL GLAZE	39K 5% 1/10W				
R3071	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3073	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3074	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R3075	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3076	1-216-043-00	METAL GLAZE	560 5% 1/10W				
R3077	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R3078	1-216-039-00	METAL GLAZE	390 5% 1/10W	M45	*1-564-523-11	PLUG, CONNECTOR 8P	
R3079	1-216-035-00	METAL GLAZE	270 5% 1/10W	M001	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P	
R3082	1-216-029-00	METAL GLAZE	150 5% 1/10W				
R3084	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3085	1-216-119-00	METAL GLAZE	820K 5% 1/10W				
R3086	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	D001	8-719-404-46	DIODE MA110	
R3087	1-216-081-00	METAL GLAZE	22K 5% 1/10W	D002	8-719-404-46	DIODE MA110	
R3088	1-216-089-00	METAL GLAZE	47K 5% 1/10W	D009	8-719-404-46	DIODE MA110	
R3089	1-216-033-00	METAL GLAZE	220 5% 1/10W	D010	8-713-300-57	DIODE 1T33	
R3090	1-216-089-00	METAL GLAZE	47K 5% 1/10W	D011	8-719-404-46	DIODE MA110	
R3091	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	D012	8-719-404-46	DIODE MA110	
R3092	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	D014	8-719-404-46	DIODE MA110	
R3098	1-216-296-91	METAL GLAZE	0 5% 1/8W	D015	8-719-404-46	DIODE MA110	
R3099	1-216-296-91	METAL GLAZE	0 5% 1/8W				
R3100	1-216-296-91	METAL GLAZE	0 5% 1/8W				
R3101	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W				
R3102	1-216-047-00	METAL GLAZE	820 5% 1/10W	I C001	8-759-254-34	IC TMC73C247-51	
R3103	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	I C002	8-759-403-44	IC MN1280-S	

M E2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L001	1-408-409-00	INDUCTOR	10UH	R060	1-216-073-00	METAL GLAZE	10K 5% 1/10W
L002	1-410-476-11	INDUCTOR	33UH	R063	1-216-033-00	METAL GLAZE	220 5% 1/10W
			<COIL>	R064	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
				R065	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R066	1-216-033-00	METAL GLAZE	220 5% 1/10W
			<TRANSISTOR>	R067	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		R068	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R069	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R070	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q011	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R072	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q012	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R073	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q013	8-729-216-22	TRANSISTOR 2SA1162-G		R074	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q014	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R075	1-216-033-00	METAL GLAZE	220 5% 1/10W
			<RESISTOR>	R076	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R001	1-216-045-00	METAL GLAZE	680 5% 1/10W	R077	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R002	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R078	1-216-033-00	METAL GLAZE	220 5% 1/10W
R003	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R079	1-216-025-00	METAL GLAZE	100 5% 1/10W
R004	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R080	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R005	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R081	1-216-033-00	METAL GLAZE	220 5% 1/10W
R006	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R082	1-216-033-00	METAL GLAZE	220 5% 1/10W
R007	1-216-027-00	METAL GLAZE	120 5% 1/10W	R083	1-216-033-00	METAL GLAZE	220 5% 1/10W
R008	1-216-041-00	METAL GLAZE	470 5% 1/10W	R084	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R009	1-216-027-00	METAL GLAZE	120 5% 1/10W	R085	1-216-033-00	METAL GLAZE	220 5% 1/10W
R011	1-216-033-00	METAL GLAZE	220 5% 1/10W	R086	1-216-033-00	METAL GLAZE	220 5% 1/10W
R012	1-216-033-00	METAL GLAZE	220 5% 1/10W	R087	1-216-033-00	METAL GLAZE	220 5% 1/10W
R013	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R088	1-216-033-00	METAL GLAZE	220 5% 1/10W
R014	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R089	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R015	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R090	1-216-033-00	METAL GLAZE	220 5% 1/10W
R016	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R091	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R017	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R092	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R018	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R093	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R019	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R094	1-216-033-00	METAL GLAZE	220 5% 1/10W
R033	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R034	1-216-033-00	METAL GLAZE	220 5% 1/10W	R096	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R035	1-216-033-00	METAL GLAZE	220 5% 1/10W	R097	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R036	1-216-033-00	METAL GLAZE	220 5% 1/10W	R098	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R037	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R100	1-216-025-00	METAL GLAZE	100 5% 1/10W
R038	1-216-033-00	METAL GLAZE	220 5% 1/10W	R101	1-216-025-00	METAL GLAZE	100 5% 1/10W
R039	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R102	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R040	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R103	1-216-033-00	METAL GLAZE	220 5% 1/10W
R041	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R104	1-216-033-00	METAL GLAZE	220 5% 1/10W
R042	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R043	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R044	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R045	1-216-025-00	METAL GLAZE	100 5% 1/10W	X001	1-579-743-11	VIBRATOR, CRYSTAL	
R046	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	*****	*****	*****	*****
R047	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R048	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R049	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R050	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R051	1-216-033-00	METAL GLAZE	220 5% 1/10W	C2302	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R052	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C2303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R053	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C2310	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R054	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C2314	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R055	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C2315	1-126-157-11	ELECT 10MF	20% 16V
R056	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C2316	1-126-157-11	ELECT 10MF	20% 16V
R057	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C2317	1-126-157-11	ELECT 10MF	20% 16V
R058	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C2318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R059	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C2320	1-124-589-11	ELECT 47MF	20% 16V
				C2321	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
				C2322	1-124-234-00	ELECT 22MF	20% 16V

E2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C2323	1-124-234-00	ELECT 22MF	20%	16V	Q2306	8-729-403-27	TRANSISTOR XN4401	
C2324	1-124-234-00	ELECT 22MF	20%	16V	Q2307	8-729-403-27	TRANSISTOR XN4401	
C2325	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2308	8-729-403-27	TRANSISTOR XN4401	
C2326	1-124-589-11	ELECT 47MF	20%	16V	Q2309	8-729-903-10	TRANSISTOR FMW1	
C2327	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2310	8-729-403-27	TRANSISTOR XN4401	
C2328	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2311	8-729-903-10	TRANSISTOR FMW1	
C2329	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2312	8-729-403-27	TRANSISTOR XN4401	
C2331	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2313	8-729-903-10	TRANSISTOR FMW1	
C2332	1-124-234-00	ELECT 22MF	20%	16V	Q2314	8-729-403-27	TRANSISTOR XN4401	
C2333	1-124-234-00	ELECT 22MF	20%	16V	Q2315	8-729-903-10	TRANSISTOR FMW1	
C2334	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2317	8-729-216-22	TRANSISTOR 2SA1162-G	
C2335	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2318	8-729-216-22	TRANSISTOR 2SA1162-G	
C2336	1-126-163-11	ELECT 4.7MF	20%	16V	Q2319	8-729-216-22	TRANSISTOR 2SA1162-G	
C2337	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2338	1-163-038-00	CERAMIC CHIP 0.1MF		25V	Q2321	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2340	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q2322	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2341	1-135-217-21	TANTAL. CHIP 15MF	20%	6.3V	Q2324	8-729-216-22	TRANSISTOR 2SA1162-G	
C2345	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2326	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2346	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2327	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2347	1-163-367-11	CERAMIC CHIP 39PF	5%	50V	Q2328	8-729-925-79	TRANSISTOR IMX3	
C2349	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2329	8-729-925-79	TRANSISTOR IMX3	
C2350	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2330	8-729-903-10	TRANSISTOR FMW1	
C2351	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2336	8-729-925-79	TRANSISTOR IMX3	
C2352	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2337	8-729-925-79	TRANSISTOR IMX3	
C2353	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2339	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2354	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2340	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2357	1-126-301-11	ELECT 1MF	20%	50V	Q2341	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2360	1-163-109-00	CERAMIC CHIP 47PF	5%	50V				

<CONNECTOR>

E2-25 *1-564-521-11 PLUG, CONNECTOR 6P
E2-26 *1-564-522-11 PLUG, CONNECTOR 7P
E2-46 *1-564-518-11 PLUG, CONNECTOR 3P
E2-002 1-573-965-21 PIN, CONNECTOR (PC BOARD) 50P

<RESISTOR>

R2302	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2303	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2304	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2305	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2306	1-216-045-00	METAL GLAZE	680	5%	1/10W

<DIODE>

D2306 8-719-404-46 DIODE MA110
D2307 8-719-948-98 DIODE FMNI
D2308 8-719-948-98 DIODE FMN1
D2309 8-719-404-46 DIODE MA110
D2312 8-719-404-46 DIODE MA110
D2313 8-719-404-46 DIODE MA110
D2314 8-713-300-57 DIODE 1T33
D2317 8-719-404-46 DIODE MA110

R2307	1-216-045-00	METAL GLAZE	680	5%	1/10W
R2308	1-216-045-00	METAL GLAZE	680	5%	1/10W
R2309	1-216-041-00	METAL GLAZE	470	5%	1/10W
R2310	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2311	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2312	1-216-043-00	METAL GLAZE	560	5%	1/10W
R2313	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2314	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R2315	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2317	1-216-041-00	METAL GLAZE	470	5%	1/10W

<IC>

IC2301 8-759-066-52 IC PCA8510T/012-T
IC2303 8-759-925-75 IC SN74HC05ANS
IC2304 8-752-037-15 IC CXA1387S
IC2306 8-759-011-65 IC MC74HC4053R
IC2307 8-752-058-68 IC CXA1315M

R2318	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2319	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R2320	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R2321	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R2322	1-216-049-00	METAL GLAZE	1K	5%	1/10W

<COIL>

L2304 1-408-414-00 INDUCTOR 27UH

R2323	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R2324	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2325	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2326	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R2327	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W

<TRANSISTOR>

Q2301 8-729-903-10 TRANSISTOR FMW1
Q2303 8-729-403-27 TRANSISTOR XN4401
Q2304 8-729-925-79 TRANSISTOR IMX3
Q2305 8-729-903-10 TRANSISTOR FMW1

R2328	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2329	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2330	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R2331	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R2332	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2333	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R2334	1-216-295-00	METAL GLAZE	0	5%	1/10W
R2335	1-216-295-00	METAL GLAZE	0	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK		
R2336	1-216-295-00	METAL GLAZE	0	5%	1/10W	R3311	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2337	1-216-033-00	METAL GLAZE	220	5%	1/10W	R3312	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2338	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3313	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2340	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3314	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R2341	1-216-041-00	METAL GLAZE	470	5%	1/10W	R3315	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R2342	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3316	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R2343	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3318	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R2344	1-216-033-00	METAL GLAZE	220	5%	1/10W	R3319	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R2345	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R3320	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2346	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3321	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R2347	1-216-083-00	METAL GLAZE	27K	5%	1/10W	R3323	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R2348	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	R3324	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2349	1-216-025-00	METAL GLAZE	100	5%	1/10W	R3325	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2350	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R3328	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2351	1-216-033-00	METAL GLAZE	220	5%	1/10W	R3330	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2352	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R3331	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2353	1-216-097-00	METAL GLAZE	100K	5%	1/10W	R3332	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2354	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	R3333	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R2355	1-216-178-00	METAL GLAZE	150	5%	1/8W	R3334	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R2356	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	R3335	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2357	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W	R3336	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R2359	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3337	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R2360	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3339	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2361	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3340	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2362	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3341	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R2363	1-216-041-00	METAL GLAZE	470	5%	1/10W	R3342	1-216-670-11	METAL CHIP	6.2K	0.50%	1/10W
R2364	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3343	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R2365	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	R3344	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R2366	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3347	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R2367	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3348	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R2368	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3349	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2371	1-216-033-00	METAL GLAZE	220	5%	1/10W	R3350	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2374	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R3351	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2375	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3352	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2376	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3353	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R2377	1-216-025-00	METAL GLAZE	100	5%	1/10W	R3354	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R2378	1-216-025-00	METAL GLAZE	100	5%	1/10W	R3356	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2379	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3357	1-216-654-11	METAL CHIP	1.3K	0.50%	1/10W
R2380	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3358	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R2381	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3359	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R2382	1-216-073-00	METAL GLAZE	10K	5%	1/10W	R3360	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R2384	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R3361	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2385	1-216-075-00	METAL GLAZE	12K	5%	1/10W	R3362	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R2386	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3364	1-216-295-00	METAL GLAZE	0	5%	1/10W
R2387	1-216-025-00	METAL GLAZE	100	5%	1/10W	R3365	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R2388	1-216-017-00	METAL GLAZE	47	5%	1/10W	R3367	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R2389	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	R3368	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R2390	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3369	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2392	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	R3370	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2393	1-216-017-00	METAL GLAZE	47	5%	1/10W	R3371	1-216-001-00	METAL GLAZE	10	5%	1/10W
R2394	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3373	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R2395	1-216-001-00	METAL GLAZE	10	5%	1/10W	R3374	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
R2396	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	R3375	1-216-056-00	METAL GLAZE	2K	5%	1/10W
R2397	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3375	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R2399	1-216-001-00	METAL GLAZE	10	5%	1/10W	R3376	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R3301	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3377	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R3302	1-216-001-00	METAL GLAZE	10	5%	1/10W	R3378	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R3303	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	R3379	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R3304	1-216-091-00	METAL GLAZE	56K	5%	1/10W	R3380	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R3306	1-216-089-00	METAL GLAZE	47K	5%	1/10W	R3381	1-216-025-00	METAL GLAZE	100	5%	1/10W
R3307	1-216-085-00	METAL GLAZE	33K	5%	1/10W	R3382	1-216-295-00	METAL GLAZE	0	5%	1/10W
R3308	1-216-043-00	METAL GLAZE	560	5%	1/10W	R3392	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R3309	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R3401	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R3310	1-216-001-00	METAL GLAZE	10	5%	1/10W						

E2 **E1**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R7312	1-216-049-00	METAL GLAZE	1K 5%	1/10W	C366	1-124-257-00	ELECT	2.2MF 20%	50V
R7313	1-216-047-00	METAL GLAZE	820 5%	1/10W	C367	1-126-157-11	ELECT	10MF 20%	16V
R7314	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	C368	1-124-234-00	ELECT	22MF 20%	16V
<CRYSTAL>									
X2301	1-577-071-11	VIBRATOR, CERAMIC			C369	1-163-001-11	CERAMIC CHIP	220PF 10%	50V

*A-1346-138-A	E1 BOARD, COMPLETE			C370	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	

<CAPACITOR>									
C301	1-163-010-11	CERAMIC CHIP 0.0012MF	10%	50V	C371	1-126-803-11	ELECT	47MF 20%	16V
C303	1-126-157-11	ELECT	10MF	20%	C372	1-124-589-11	ELECT	47MF 20%	16V
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	C373	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V
C305	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	C378	1-163-117-00	CERAMIC CHIP	100PF 5%	50V
C306	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C379	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V
C309	1-164-505-11	CERAMIC CHIP 2.2MF			C380	1-163-137-00	CERAMIC CHIP	680PF 5%	50V
C310	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	C381	1-163-101-00	CERAMIC CHIP	22PF 5%	50V
C314	1-124-667-11	ELECT	10MF	20%	C382	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V
C315	1-164-505-11	CERAMIC CHIP 2.2MF			C383	1-164-004-11	CERAMIC CHIP	0.1MF 10%	25V
C319	1-126-157-11	ELECT	10MF	20%	C384	1-163-095-00	CERAMIC CHIP	12PF 5%	50V
<CONNECTOR>									
C320	1-124-465-00	BLBCT	0.47MF	20%	50V	E1-24	1-564-523-11	PLUG, CONNECTOR	8P
C321	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	E1-25	*1-564-521-11	PLUG, CONNECTOR	6P
C322	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	E1-26	*1-564-522-11	PLUG, CONNECTOR	7P
C323	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	E1-001	1-573-965-21	PIN, CONNECTOR (PC BOARD)	50P
C324	1-124-234-00	ELECT	22MF	20%	16V	<DIODE>			
C325	1-104-563-11	FILM CHIP	0.1MF	5%	16V	D301	8-719-404-46	DIODE	MA110
C326	1-104-563-11	FILM CHIP	0.1MF	5%	16V	D302	8-719-404-46	DIODE	MA110
C327	1-104-563-11	FILM CHIP	0.1MF	5%	16V	D303	8-719-404-46	DIODE	MA110
C328	1-126-157-11	ELECT	10MF	20%	16V	D304	8-719-404-46	DIODE	MA110
C329	1-126-157-11	ELECT	10MF	20%	16V	D305	8-719-404-46	DIODE	MA110
C330	1-126-157-11	BLBCT	10MF	20%	16V	D306	8-719-158-15	DIODE	RD5.6SB
C331	1-126-301-11	ELECT	1MF	20%	50V	D307	8-719-404-46	DIODE	MA110
C332	1-124-584-00	BLBCT	100MF	20%	10V	D310	8-719-158-15	DIODE	RD5.6SB
C333	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	D312	8-719-404-46	DIODE	MA110
C334	1-137-491-11	FILM CHIP	0.1MF	5%	25V	D313	8-719-404-46	DIODE	MA110
C335	1-136-169-00	FILM	0.22MF	5%	50V	D314	8-719-404-46	DIODE	MA110
C336	1-126-301-11	ELECT	1MF	20%	50V	D315	8-719-404-46	DIODE	MA110
C337	1-126-301-11	ELECT	1MF	20%	50V	D316	8-719-404-46	DIODE	MA110
C338	1-124-584-00	ELECT	100MF	20%	10V	D317	8-719-404-46	DIODE	MA110
C339	1-126-801-11	ELECT	1MF	20%	50V	D318	8-719-404-46	DIODE	MA110
C340	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	<DELAY LINE>			
C341	1-126-157-11	ELECT	10MF	20%	16V	DL302	1-415-817-11	DELAY LINE	
C342	1-124-465-00	ELECT	0.47MF	20%	50V	<IC>			
C343	1-124-589-11	ELECT	47MF	20%	16V				
C344	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V				
C346	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	IC301	8-752-058-68	IC	CXA1315M
C348	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	IC302	8-752-057-68	IC	CXA1464AS
C350	1-126-301-11	ELECT	1MF	20%	50V				
C351	1-163-002-11	CERAMIC CHIP	270PF	10%	50V				
C352	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V				
C353	1-126-163-11	ELECT	4.7MF	20%	50V				
C355	1-124-465-00	ELECT	0.47MF	20%	50V	L301	1-410-064-11	INDUCTOR	2.7MH
C356	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	L307	1-410-944-31	INDUCTOR CHIP	15UH
C357	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	L308	1-410-946-31	INDUCTOR CHIP	22UH
C360	1-137-491-11	FILM CHIP	0.1MF	5%	25V				
C361	1-126-301-11	ELECT	1MF	20%	50V	<TRANSISTOR>			
C362	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V				
C363	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	Q301	8-729-925-79	TRANSISTOR	IMX3
C364	1-126-301-11	ELECT	1MF	20%	50V	Q302	8-729-925-79	TRANSISTOR	IMX3
C365	1-164-343-11	CERAMIC CHIP	0.056MF	10%	25V	Q303	8-729-120-28	TRANSISTOR	2SC1623-L5L6

E1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q304	8-729-907-46	TRANSISTOR IMZ1		R352	1-216-011-00	METAL GLAZE	27 5% 1/10W
Q305	8-729-925-79	TRANSISTOR IMX3		R353	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R354	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q307	8-729-903-10	TRANSISTOR FMW1		R355	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q309	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R356	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R357	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q311	8-729-403-27	TRANSISTOR XN4401		R358	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q312	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R359	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q314	8-729-403-27	TRANSISTOR XN4401		R360	1-216-119-00	METAL GLAZE	820K 5% 1/10W
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R361	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R362	1-216-079-00	METAL GLAZE	18K 5% 1/10W
Q317	8-729-216-22	TRANSISTOR 2SA1162-G		R363	1-216-295-00	METAL GLAZE	0 5% 1/10W
Q321	8-729-925-79	TRANSISTOR IMX3		R364	1-216-045-00	METAL GLAZE	680 5% 1/10W
Q322	8-729-216-22	TRANSISTOR 2SA1162-G		R365	1-216-017-00	METAL GLAZE	47 5% 1/10W
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R366	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q324	8-729-216-22	TRANSISTOR 2SA1162-G		R367	1-216-045-00	METAL GLAZE	680 5% 1/10W
Q325	8-729-216-22	TRANSISTOR 2SA1162-G		R368	1-216-001-00	METAL GLAZE	10 5% 1/10W
Q326	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R369	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q327	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R370	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q328	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R371	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q333	8-729-925-79	TRANSISTOR IMX3		R372	1-216-031-00	METAL GLAZE	180 5% 1/10W
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R373	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
Q335	8-729-907-46	TRANSISTOR IMZ1		R374	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q340	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R375	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q342	8-729-925-79	TRANSISTOR IMX3		R376	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q344	8-729-216-22	TRANSISTOR 2SA1162-G		R377	1-216-033-00	METAL GLAZE	220 5% 1/10W
<RESISTOR>							
R301	1-216-025-00	METAL GLAZE	100 5% 1/10W	R378	1-216-033-00	METAL GLAZE	220 5% 1/10W
R302	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R379	1-216-033-00	METAL GLAZE	220 5% 1/10W
R303	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R380	1-216-033-00	METAL GLAZE	220 5% 1/10W
R304	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R381	1-216-033-00	METAL GLAZE	220 5% 1/10W
R305	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R382	1-216-033-00	METAL GLAZE	220 5% 1/10W
R306	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R383	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R307	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R384	1-216-041-00	METAL GLAZE	470 5% 1/10W
R308	1-216-037-00	METAL GLAZE	330 5% 1/10W	R385	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R309	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R386	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R310	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R387	1-216-033-00	METAL GLAZE	220 5% 1/10W
R312	1-216-043-00	METAL GLAZE	560 5% 1/10W	R388	1-216-033-00	METAL GLAZE	220 5% 1/10W
R313	1-216-035-00	METAL GLAZE	270 5% 1/10W	R389	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R314	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R390	1-216-033-00	METAL GLAZE	220 5% 1/10W
R316	1-216-035-00	METAL GLAZE	270 5% 1/10W	R391	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R317	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R393	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R320	1-216-039-00	METAL GLAZE	390 5% 1/10W	R394	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R325	1-216-033-00	METAL GLAZE	220 5% 1/10W	R395	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R326	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R397	1-216-081-00	METAL GLAZE	22K 5% 1/10W
H331	1-216-017-00	METAL GLAZE	47 5% 1/10W	R398	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R332	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W	R399	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R333	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R1301	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R336	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1302	1-216-045-00	METAL GLAZE	680 5% 1/10W
R338	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1303	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R339	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1304	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R340	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1305	1-216-025-00	METAL GLAZE	100 5% 1/10W
R341	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1306	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R343	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1307	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R344	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1308	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R345	1-216-292-11	METAL GLAZE	8.2M 5% 1/8W	R1309	1-216-025-00	METAL GLAZE	100 5% 1/10W
R346	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1310	1-216-045-00	METAL GLAZE	680 5% 1/10W
R347	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1311	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R348	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1312	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R349	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R350	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1314	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R351	1-216-674-11	METAL CHIP	9.1K 0.50% 1/10W	R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R1316	1-216-081-00	METAL GLAZE	22K 5% 1/10W
				R1317	1-216-073-00	METAL GLAZE	10K 5% 1/10W

E1 Y2

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1318	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	*****			*A-1394-532-A	Y2 BOARD, COMPLETE	*****
R1319	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	*****					
R1320	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	*****					
R1321	1-216-081-00	METAL GLAZE	22K	5%	1/10W	*****					
R1322	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	*****					
<CAPACITOR>											
R1323	1-216-089-00	METAL GLAZE	47K	5%	1/10W	C401	1-124-234-00	ELECT	22MF	20%	16V
R1324	1-216-045-00	METAL GLAZE	680	5%	1/10W	C424	1-126-301-11	ELECT	1MF	20%	50V
R1325	1-216-025-00	METAL GLAZE	100	5%	1/10W	C425	1-126-301-11	ELECT	1MF	20%	50V
R1326	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C426	1-126-301-11	ELECT	1MF	20%	50V
R1327	1-216-033-00	METAL GLAZE	220	5%	1/10W	C427	1-124-465-00	ELECT	0.47MF	20%	50V
R1328	1-216-033-00	METAL GLAZE	220	5%	1/10W	C428	1-126-163-11	ELECT	4.7MF	20%	50V
R1329	1-216-077-00	METAL GLAZE	15K	5%	1/10W	C429	1-124-478-11	ELECT	100MF	20%	25V
R1330	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C430	1-124-261-00	ELECT	10MF	20%	50V
R1331	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C431	1-126-301-11	ELECT	1MF	20%	50V
R1333	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	C432	1-126-301-11	ELECT	1MF	20%	50V
R1342	1-216-033-00	METAL GLAZE	220	5%	1/10W	C433	1-131-347-00	TANTALUM	1MF	20%	16V
R1346	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C434	1-126-301-11	ELECT	1MF	20%	50V
R1347	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C435	1-130-994-11	FILM	0.033MF	5%	50V
R1348	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C436	1-126-301-11	ELECT	1MF	20%	50V
R1349	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C437	1-137-372-11	FILM	0.022MF	5%	50V
R1350	1-216-091-00	METAL GLAZE	56K	5%	1/10W	C438	1-126-301-11	ELECT	1MF	20%	50V
R1352	1-216-039-00	METAL GLAZE	390	5%	1/10W	C439	1-104-792-51	ELECT	33MF	20%	16V
R1353	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C440	1-126-301-11	ELECT	1MF	20%	50V
R1354	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C441	1-126-301-11	ELECT	1MF	20%	50V
R1355	1-216-017-00	METAL GLAZE	47	5%	1/10W	C442	1-124-261-00	ELECT	10MF	20%	50V
R1356	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C443	1-124-589-11	ELECT	47MF	20%	16V
R1357	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C444	1-126-163-11	ELECT	4.7MF	20%	50V
R1358	1-216-033-00	METAL GLAZE	220	5%	1/10W	C445	1-126-163-11	ELECT	4.7MF	20%	50V
R1362	1-216-105-00	METAL GLAZE	220K	5%	1/10W	C446	1-124-234-00	ELECT	22MF	20%	16V
R1363	1-216-041-00	METAL GLAZE	470	5%	1/10W	C447	1-126-301-11	ELECT	1MF	20%	50V
R1364	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C448	1-136-170-00	FILM	0.27MF	5%	50V
R1373	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C449	1-163-009-11	CBRAMIC CHIP	0.001MF	10%	50V
R1374	1-216-025-00	METAL GLAZE	100	5%	1/10W	C450	1-137-366-11	FILM	0.0022MF	5%	50V
R1379	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C451	1-124-261-00	ELECT	10MF	20%	50V
R1380	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C452	1-124-261-00	ELECT	10MF	20%	50V
R1381	1-216-041-00	METAL GLAZE	470	5%	1/10W	C453	1-137-366-11	FILM	0.0022MF	5%	50V
R1382	1-216-079-00	METAL GLAZE	18K	5%	1/10W	C454	1-131-368-00	TANTALUM	3.3MF	10%	16V
R1383	1-216-077-00	METAL GLAZE	15K	5%	1/10W	C455	1-131-347-00	TANTALUM	1MF	20%	16V
R1384	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C456	1-136-171-00	FILM	0.33MF	5%	50V
R1385	1-216-037-00	METAL GLAZE	330	5%	1/10W	C457	1-136-175-00	FILM	0.68MF	5%	50V
R1386	1-216-037-00	METAL GLAZE	330	5%	1/10W	C458	1-126-101-11	ELECT	100MF	20%	16V
R1387	1-216-045-00	METAL GLAZE	680	5%	1/10W	C459	1-126-101-11	ELECT	100MF	20%	16V
R1388	1-216-001-00	METAL GLAZE	10	5%	1/10W	C460	1-126-101-11	ELECT	100MF	20%	16V
R1389	1-216-097-00	METAL GLAZE	100K	5%	1/10W	C461	1-124-499-11	ELECT	1MF	20%	50V
R1390	1-216-097-00	METAL GLAZE	100K	5%	1/10W	C462	1-124-499-11	ELECT	1MF	20%	50V
R1391	1-216-097-00	METAL GLAZE	100K	5%	1/10W	C465	1-130-485-00	MYLAR	0.015MF	5%	50V
R1392	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C466	1-130-485-00	MYLAR	0.015MF	5%	50V
R1394	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C467	1-136-169-00	FILM	0.22MF	5%	50V
R1395	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C468	1-136-169-00	FILM	0.22MF	5%	50V
R1396	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W	C469	1-126-157-11	ELECT	10MF	20%	16V
R1399	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C470	1-126-157-11	ELECT	10MF	20%	16V
R5301	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C471	1-124-589-11	ELECT	47MF	20%	16V
R5302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C472	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
R5303	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C473	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
R5304	1-216-085-00	METAL GLAZE	33K	5%	1/10W	C474	1-124-234-00	ELECT	22MF	20%	16V
R5305	1-216-085-00	METAL GLAZE	33K	5%	1/10W	C475	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
<CRYSTAL>											
X301	1-567-505-11	OSCILLATOR, CRYSTAL	*****			C476	1-124-234-00	ELECT	22MF	20%	16V

C477	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C478	1-124-478-11	ELECT	100MF	20%	25V
C479	1-126-163-11	ELECT	4.7MF	20%	50V	C480	1-124-768-11	ELECT	4.7MF	20%	50V
C481	1-124-768-11	ELECT	4.7MF	20%	50V	C482	1-126-163-11	ELECT	4.7MF	20%	50V
C483	1-163-113-00	CERAMIC CHIP	68PF	5%	50V						

Y2 G

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C484	1-163-113-00	CERAMIC CHIP 68PF	5%	50V	R496	1-216-025-00	METAL GLAZE	100 5% 1/10W
C485	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R497	1-216-033-00	METAL GLAZE	220 5% 1/10W	
C487	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R498	1-216-025-00	METAL GLAZE	100 5% 1/10W	
C488	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R499	1-216-025-00	METAL GLAZE	100 5% 1/10W	
<CONNECTOR>				R500	1-216-081-00	METAL GLAZE	22K 5% 1/10W	
Y2-401 1-573-966-11 PIN, CONNECTOR (PC BOARD) 36P				R501	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	
<DIODE>				R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	
D405	8-719-107-13	DIODE RD18M-B1	R503	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W		
D406	8-719-107-13	DIODE RD18M-B1	R504	1-216-675-11	METAL CHIP	10K 0.50% 1/10W		
D407	8-719-107-13	DIODE RD18M-B1	R507	1-216-295-00	METAL GLAZE	0 5% 1/10W		
D408	8-719-105-83	DIODE RD5.1M-B3	R509	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
D409	8-719-981-50	DIODE RB-100A	R510	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W		
D410	8-719-981-50	DIODE RB-100A	R512	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
D413	8-719-158-19	DIODE RD6.2SB	R513	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W		
D414	8-719-158-55	DIODE RD15SB	R515	1-216-295-00	METAL GLAZE	0 5% 1/10W		
D415	8-719-158-55	DIODE RD15SB	R517	1-216-025-00	METAL GLAZE	100 5% 1/10W		
<IC>				R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	
IC403	8-759-996-43	IC RC4558PS	R519	1-216-295-00	METAL GLAZE	0 5% 1/10W		
IC404	8-759-067-24	IC 2AC04A1/P	R521	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W		
IC406	8-752-037-24	IC CXA1264AS	R522	1-216-033-00	METAL GLAZE	220 5% 1/10W		
IC407	8-759-245-75	IC TA8184P	R523	1-216-033-00	METAL GLAZE	220 5% 1/10W		
IC408	8-752-057-18	IC CXA1315P	R524	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
<TRANSISTOR>				R525	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	
Q404	8-729-216-22	TRANSISTOR 2SA1162-G	R526	1-216-049-00	METAL GLAZE	1K 5% 1/10W		
Q405	8-729-216-22	TRANSISTOR 2SA1162-G	R527	1-218-754-11	METAL CHIP	120K 0.50% 1/10W		
Q409	8-729-120-28	TRANSISTOR 2SC1623-L5L6	R528	1-216-691-11	METAL CHIP	47K 0.50% 1/10W		
Q410	8-729-120-28	TRANSISTOR 2SC1623-L5L6	R529	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
<RESISTOR>				R530	1-216-097-00	METAL GLAZE	100K 5% 1/10W	
R447	1-216-033-00	METAL GLAZE	R531	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R453	1-216-033-00	METAL GLAZE	R532	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R464	1-216-081-00	METAL GLAZE	R533	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R465	1-216-081-00	METAL GLAZE	R535	1-216-049-00	METAL GLAZE	1K 5% 1/10W		
R466	1-216-025-00	METAL GLAZE	R536	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
R467	1-216-033-00	METAL GLAZE	R537	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W		
R468	1-216-033-00	METAL GLAZE	R538	1-218-754-11	METAL CHIP	120K 0.50% 1/10W		
R469	1-216-055-00	METAL GLAZE	R539	1-216-691-11	METAL CHIP	47K 0.50% 1/10W		
R470	1-216-033-00	METAL GLAZE	R540	1-216-025-00	METAL GLAZE	100 5% 1/10W		
R471	1-216-033-00	METAL GLAZE	R541	1-216-025-00	METAL GLAZE	100 5% 1/10W		
R472	1-216-686-11	METAL CHIP	R542	1-216-025-00	METAL GLAZE	100 5% 1/10W		
R473	1-216-295-00	METAL GLAZE	R543	1-216-025-00	METAL GLAZE	100 5% 1/10W		
R474	1-216-295-00	METAL GLAZE	R546	1-216-682-11	METAL CHIP	20K 0.50% 1/10W		
R475	1-216-055-00	METAL GLAZE	R547	1-208-812-11	METAL CHIP	18K 0.50% 1/10W		
R476	1-216-669-11	METAL CHIP	*****					
R477	1-216-675-11	METAL CHIP	*A-1316-180-A G BOARD, COMPLETE					
R478	1-216-089-00	METAL GLAZE	*****					
R479	1-216-669-11	METAL CHIP	4-039-042-01 SPACER, INSULATING					
R480	1-216-675-11	METAL CHIP	4-382-854-11 SCREW (M3X10), P, SW (+)					
R481	1-216-089-00	METAL GLAZE	*****					
R482	1-216-089-00	METAL GLAZE	<CAPACITOR>					
R483	1-216-089-00	METAL GLAZE	C601	1-161-830-00	CERAMIC	4700PF 10% 500V		
R485	1-216-073-00	METAL GLAZE	C602	1-130-317-00	FILM	0.068MF 5% 100V		
R486	1-216-073-00	METAL GLAZE	C603	1-124-634-11	ELECT	1MF 20% 250V		
R488	1-216-295-00	METAL GLAZE	C605	1-164-143-11	CERAMIC	0.001MF 10% 1KV		
R494	1-216-025-00	METAL GLAZE	C606	1-124-563-11	ELECT	2200MF 20% 25V		
R495	1-216-025-00	METAL GLAZE	C607	1-124-563-11	ELECT	2200MF 20% 25V		
			C608	1-128-484-11	ELECT	10MF 20% 200V		
			C609	1-137-141-11	FILM	0.082MF 3% 600V		
			C612	1-124-962-11	ELECT	2200MF 20% 25V		
			C614	1-104-965-11	ELECT	10MF 0 160V		
			C615	1-124-798-11	ELECT	1MF 20% 160V		
			C616	1-124-557-11	ELECT	1000MF 20% 25V		
			C617	1-164-143-11	CERAMIC	0.001MF 10% 1KV		

G

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The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C618	1-136-853-11	FILM	0.56MF	5%	200V	D616	8-719-025-81	DIODE S3V10SB
C619	1-164-735-11	CAP, CERAMIC	1500PF	D617	8-719-110-02	DIODE RD7.5ESB1		
C620	1-136-721-21	FILM	1.5MF	10%	400V	D618	8-719-911-19	DIODE ISS119
C621	1-164-143-11	CERAMIC	0.001MF	10%	1KV	D619	8-719-975-76	DIODE SB140
C622	1-136-853-11	FILM	0.56MF	5%	200V	D620	8-719-988-31	DIODE D10SC6MR
C623	1-137-087-11	FILM	0.068MF	3%	0	D621	8-719-908-03	DIODE GP08D
C624	1-126-771-11	ELECT	100MF	20%	160V	D622	8-719-908-03	DIODE GP08D
C625	1-126-183-11	ELECT	1000MF	20%	16V	D623	8-719-110-63	DIODE RD24ESB3
C626	1-126-373-11	ELECT	470MF	20%	10V	D624	8-719-109-89	DIODE RD5.6ESB2
C628	1-161-830-00	CERAMIC	4700PF	10%	500V	D626	8-719-908-03	DIODE GP08D
C629	1-128-550-11	ELECT	2200MF	20%	50V	D628	8-719-110-49	DIODE RD18ESB2
C631	1-126-803-11	ELECT	47MF	20%	50V	D629	8-719-911-19	DIODE ISS119
C632	1-124-903-11	ELECT	1MF	20%	50V	D631	8-719-911-19	DIODE ISS119
C633	1-130-483-00	MYLAR	0.01MF	5%	50V	D632	8-719-511-40	DIODE S1VB40
C634	1-126-803-11	ELECT	47MF	20%	16V	D633	8-719-505-60	DIODE S5V860
C637	▲1-136-311-51	FILM	0.47MF	20%	125V	D634	8-719-911-19	DIODE ISS119
C638	▲1-161-743-71	CERAMIC	0.0047MF	D636	8-719-109-85	DIODE RD5.1ESB2		
C639	▲1-125-692-11	ELECT (BLOCK)	820MF	20%	200V	D638	8-719-911-19	DIODE ISS119
C640	▲1-136-311-51	FILM	0.47MF	20%	125V	D640	8-719-510-09	DIODE D10SC6M
C641	1-126-101-11	ELECT	100MF	20%	16V	D650	8-719-160-81	DIODE RD27FB2
C642	▲1-161-743-71	CERAMIC	0.0047MF	400V	<FUSE>			
C644	1-126-104-11	ELECT	470MF	20%	35V	F601	▲1-576-193-11	FUSE 6.3A/125V
C646	1-124-907-11	ELECT	10MF	20%	50V	1-533-223-11	CLIP, FUSE; F601	
C647	▲1-164-486-51	CERAMIC	0.0033MF	20%	400V	<CONNECTOR>		
C648	▲1-125-692-11	ELECT (BLOCK)	820MF	20%	200V	G1	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
C649	▲1-164-486-51	CERAMIC	0.0033MF	20%	400V	G2	*1-564-512-11	PLUG, CONNECTOR 9P
C650	▲1-161-743-71	CERAMIC	0.0047MF	400V	G3	*1-564-507-11	PLUG, CONNECTOR 4P	
C651	1-124-477-11	ELECT	47MF	20%	16V	G4	*1-564-511-11	PLUG, CONNECTOR 8P
C652	1-102-074-00	CERAMIC	0.001MF	10%	50V	G5	*1-564-508-11	PLUG, CONNECTOR 5P
C653	1-126-101-11	ELECT	100MF	20%	16V	G6	*1-564-506-11	PLUG, CONNECTOR 3P
C660	1-102-125-00	CERAMIC	0.0047MF	10%	50V	G7	*1-564-507-11	PLUG, CONNECTOR 4P
C661	1-102-125-00	CERAMIC	0.0047MF	10%	50V	G8	*1-580-843-11	PIN, CONNECTOR (POWER)
C662	1-124-927-11	ELECT	4.7MF	20%	50V	G10	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
C663	1-126-946-11	ELECT	6800MF	20%	16V	G11	*1-564-511-11	PLUG, CONNECTOR 8P
C664	1-126-946-11	ELECT	6800MF	20%	16V	<DIODE>		
C670	1-102-074-00	CERAMIC	0.001MF	10%	50V	D602	8-719-979-58	DIODE EGP10D
						D603	8-719-500-67	DIODE D5KC40H
						D604	8-719-510-09	DIODE D10SC6M
						D605	8-719-988-31	DIODE D10SC6MR
						D607	8-719-025-81	DIODE S3V10SB
						D608	8-719-109-86	DIODE RD5.1ESB3
						D609	8-719-109-84	DIODE RD5.1ESB1
						D610	8-719-979-58	DIODE EGP10D
						D611	8-719-979-58	DIODE EGP10D
						D613	8-719-300-33	DIODE RU-3AM
						D614	8-719-979-58	DIODE EGP10D
						D615	8-719-975-76	DIODE SB140
						<TRANSISTOR>		
						Q603	8-729-011-15	TRANSISTOR 2SC4582NP
						Q604	8-729-119-80	TRANSISTOR 2SC2688-LK
						Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE
						Q608	8-729-326-11	TRANSISTOR 2SC2611
						Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE
						Q610	8-729-820-82	TRANSISTOR 2SA1208-S
						Q611	8-729-820-82	TRANSISTOR 2SA1208-S
						Q612	8-729-386-12	TRANSISTOR 2SB861-C
						Q613	8-729-209-15	TRANSISTOR 2SD2012

G CR

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
Q614	8-729-011-15	TRANSISTOR 2SC4582NP		R660	1-260-095-11	CARBON	470 5% 1/2W				
Q615	8-729-820-82	TRANSISTOR 2SA1208-S		R661	Δ 1-202-884-91	SOLID	820K 20% 1/2W				
Q616	8-729-017-05	TRANSISTOR 2SA1837		R662	Δ 1-205-900-11	WIREWOUND	1.2 5% 15W				
Q618	8-729-119-76	TRANSISTOR 2SA1175-HFE		R663	Δ 1-215-904-71	METAL OXIDE	100K 5% 2W R				
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE		R666	1-249-377-11	CARBON	0.47 5% 1/4W F				
Q621	8-729-119-78	TRANSISTOR 2SC2785-HFE		R667	Δ 1-202-888-91	SOLID	2.2M 20% 1/2W				
Q622	8-729-119-78	TRANSISTOR 2SC2785-HFE		R668	Δ 1-215-904-71	METAL OXIDE	100K 5% 2W R				
Q623	8-729-119-76	TRANSISTOR 2SA1175-HFE		R669	1-249-377-11	CARBON	0.47 5% 1/4W F				
Q624	8-729-119-76	TRANSISTOR 2SA1175-HFE		R675	1-249-377-11	CARBON	0.47 5% 1/4W F				
Q625	8-729-119-78	TRANSISTOR 2SC2785-HFE		R676	1-247-887-00	CARBON	220K 5% 1/4W				
Q626	8-729-119-78	TRANSISTOR 2SC2785-HFE		R677	1-249-441-11	CARBON	100K 5% 1/4W				
Q627	8-729-119-78	TRANSISTOR 2SC2785-HFE		R678	1-249-433-11	CARBON	22K 5% 1/4W				
Q629	8-729-378-84	TRANSISTOR 2SD788-5		R679	1-249-437-11	CARBON	47K 5% 1/4W				
Q630	8-729-255-12	TRANSISTOR 2SC2551-0		R680	1-249-437-11	CARBON	47K 5% 1/4W				
<RESISTOR>											
R604	1-202-933-61	FUSIBLE	0.1 10% 1/2W F	R681	1-249-429-11	CARBON	10K 5% 1/4W				
R605	1-249-428-11	CARBON	8.2K 5% 1/4W	R682	1-249-429-11	CARBON	10K 5% 1/4W				
R606	1-214-919-00	METAL	180K 1% 1/2W	R683	1-249-437-11	CARBON	47K 5% 1/4W				
R609	1-249-434-11	CARBON	27K 5% 1/4W F	R687	1-249-430-11	CARBON	12K 5% 1/4W F				
R610	1-215-469-00	METAL	100K 1% 1/4W	R689	1-247-742-11	CARBON	180 5% 1/2W F				
R611	1-249-421-11	CARBON	2.2K 5% 1/4W F	R691	1-249-433-11	CARBON	22K 5% 1/4W				
R612	1-202-883-11	SOLID	680K 20% 1/2W	R694	1-249-421-11	CARBON	2.2K 5% 1/4W				
Δ R613	Δ 1-216-386-71	METAL OXIDE	0.56 5% 3W R	R697	1-249-382-11	CARBON	1.2 5% 1/4W F				
R614	1-249-418-11	CARBON	1.2K 5% 1/4W F	Δ R698	Δ 1-216-386-71	METAL OXIDE	0.56 5% 3W R				
R615	1-215-441-00	METAL	6.8K 1% 1/4W	<RELAY>							
R616	1-215-436-00	METAL	4.3K 1% 1/4W	RY601	Δ 1-515-805-21	RELAY, POWER					
Δ R617	Δ 1-216-356-71	METAL OXIDE	3.9 5% 1W F	RY602	Δ 1-515-805-21	RELAY, POWER					
R618	1-249-418-11	CARBON	1.2K 5% 1/4W	<TRANSFORMER>							
R619	Δ 1-216-444-71	METAL OXIDE	82K 5% 1W F	T601	Δ 1-426-664-11	TRANSFORMER, CONVERTER (P/L)					
R620	1-249-418-11	CARBON	1.2K 5% 1/4W F	T603	Δ 1-424-020-11	RPT					
R621	1-249-396-11	CARBON	18 5% 1/4W F	T604	Δ 1-450-149-11	TRANSFORMER, HEATER					
R622	1-249-424-11	CARBON	3.9K 5% 1/4W F	T605	Δ 1-424-023-12	TRANSFORMER, LINE FILTER					
R623	1-249-417-11	CARBON	1K 5% 1/4W	T606	Δ 1-421-372-21	TRANSFORMER, FERRITE (LFT)					
R624	1-215-471-00	METAL	120K 1% 1/4W	T608	Δ 1-423-665-11	TRANSFORMER, POWER					
R625	Δ 1-216-386-71	METAL OXIDE	0.56 5% 3W F	<VARISTOR>							
Δ R626	Δ 1-216-356-71	METAL OXIDE	3.9 5% 1W F	VDR601	Δ 1-809-786-11	VARISTOR					
R627	1-202-883-11	SOLID	680K 20% 1/2W	*****							
R628	1-249-410-11	CARBON	270 5% 1/4W F	*A-1331-337-A	CR BOARD, COMPLETE		*****				
Δ R629	Δ 1-217-249-11	WIREWOUND	1 10% 3W F	4-373-933-01	SHEET (TRANSISTOR), BN						
R631	1-249-417-11	CARBON	1K 5% 1/4W F	4-382-854-11	SCRBW (M3X10), P, SW (+)						
R632	1-215-469-00	METAL	100K 1% 1/4W	<CAPACITOR>							
R633	1-249-429-11	CARBON	10K 5% 1/4W	C701	1-162-115-00	CERAMIC	330PF 10% 2KV				
R634	1-249-441-11	CARBON	100K 5% 1/4W	C702	1-123-948-00	ELECT	22MF 20% 250V				
R635	1-215-897-11	METAL OXIDE	6.8K 5% 2W F	C703	1-102-050-00	CERAMIC	0.01MF 500V				
R636	1-249-383-11	CARBON	1.2 5% 1/4W	C704	1-162-115-00	CERAMIC	330PF 10% 2KV				
R638	1-249-405-11	CARBON	100 5% 1/4W F	C705	1-130-479-00	MYLAR	0.0047MF 5% 50V				
R639	1-249-405-11	CARBON	100 5% 1/4W F	C706	1-101-006-00	CERAMIC	0.047MF 50V				
R640	1-249-421-11	CARBON	2.2K 5% 1/4W F	C707	1-101-006-00	CERAMIC	0.047MF 50V				
R641	1-249-429-11	CARBON	10K 5% 1/4W	C709	1-124-120-11	ELECT	220MF 20% 16V				
R642	1-215-422-00	METAL	1.1K 1% 1/4W	C711	1-164-081-11	CERAMIC	470PF 10% 50V				
R643	1-249-441-11	CARBON	100K 5% 1/4W	<CONNECTOR>							
R644	1-249-415-11	CARBON	680 5% 1/4W	CR1	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					
R645	1-249-417-11	CARBON	1K 5% 1/4W								
R646	1-215-446-00	METAL	11K 1% 1/4W								
R649	1-249-424-11	CARBON	3.9K 5% 1/4W								
R650	1-249-377-11	CARBON	0.47 5% 1/4W F								
R651	1-215-429-00	METAL	2.2K 1% 1/4W								
Δ R652	Δ 1-215-429-00	METAL	1 10% 1/4W								
R654	1-215-429-00	METAL	2.2K 1% 1/4W								
R655	1-249-426-11	CARBON	5.6K 5% 1/4W								
R656	1-215-454-00	METAL	24K 1% 1/4W								
R657	Δ 1-216-386-71	METAL OXIDE	0.56 5% 3W F								

- The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

CR **CG**

Les composants identifiés par
une trame et une marque **▲** sont
critiques pour la sécurité.
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for safety.
Replace only with part number
specified.

REF. NO. PART NO. **DESCRIPTION**

CR3 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
CR4 *1-564-511-11 PLUG, CONNECTOR 8P
CR15 *1-564-508-11 PLUG, CONNECTOR 5P

<SOCKET>

CRT701▲1-251-179-11 SOCKET, PICTURE TUBE

<DIODE>

D701 8-719-911-19 DIODE ISS119
D702 8-719-911-19 DIODE ISS119
D703 8-719-911-19 DIODE ISS119
D704 8-719-911-19 DIODE ISS119
D705 8-719-911-19 DIODE ISS119
D706 8-719-911-19 DIODE ISS119
D708 1-249-410-11 CARBON 270 5% 1/4W

<COIL>

L701 1-408-429-00 INDUCTOR 470UH
L702 1-249-470-11 CARBON 0.47 5% 1/2W F
L704 1-408-413-00 INDUCTOR 22UH

<NEON LAMP>

NL701 1-519-108-99 LAMP, NEON

<TRANSISTOR>

Q702 8-729-119-78 TRANSISTOR 2SC2785-HFB
Q703 8-729-119-80 TRANSISTOR 2SC2688-LK
Q704 8-729-255-12 TRANSISTOR 2SC2551-0
Q705 8-729-200-17 TRANSISTOR 2SA1091-0
Q706 8-729-200-17 TRANSISTOR 2SA1091-0

<RESISTOR>

R701 1-202-847-00 SOLID 560K 20% 1/2W
R702 1-202-814-11 SOLID 33K 20% 1/2W
R705 1-202-828-11 SOLID 6.8K 20% 1/2W
R706 1-202-561-00 SOLID 330 20% 1/2W
R708 1-249-405-11 CARBON 100 5% 1/4W F

R709 1-249-405-11 CARBON 100 5% 1/4W F
R710 ▲1-215-927-71 METAL OXIDE 47K 5% 3W F
R711 1-249-405-11 CARBON 100 5% 1/4W F
R712 1-249-421-11 CARBON 2.2K 5% 1/4W F
R714 1-249-401-11 CARBON 47 5% 1/4W F

R716 1-247-807-31 CARBON 100 5% 1/4W
R717 1-249-403-11 CARBON 68 5% 1/4W
R718 1-249-412-11 CARBON 390 5% 1/4W
R719 1-249-410-11 CARBON 270 5% 1/4W
R722 1-215-399-00 METAL 120 1% 1/4W

R724 1-215-409-00 METAL 330 1% 1/4W
R726 1-215-924-00 METAL OXIDE 15K 5% 3W F
R727 1-216-488-11 METAL OXIDE 18K 5% 3W F

<SPARK GAP>

SG702 1-519-422-11 GAP, SPARK

REF. NO. PART NO.

DESCRIPTION

REMARK

*A-1331-338-A CG BOARD, COMPLETE

4-373-933-01 SHEET (TRANSISTOR), BN
4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

C731	1-162-115-00	CERAMIC	330PF	10%	2KV
C732	1-123-948-00	ELECT	22MF	20%	250V
C733	1-102-050-00	CERAMIC	0.01MF		500V
C734	1-162-115-00	CERAMIC	330PF	10%	2KV
C735	1-130-479-00	MYLAR	0.0047MF	5%	50V
C736	1-101-006-00	CERAMIC	0.047MF		50V
C737	1-101-006-00	CERAMIC	0.047MF		50V
C739	1-124-120-11	ELECT	220MF	20%	16V
C741	1-164-081-11	CERAMIC	470PF	10%	50V

<CONNECTOR>

CG1 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P
CG3 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
CG16 *1-564-508-11 PLUG, CONNECTOR 5P

<SOCKET>

CRT731▲1-251-179-11 SOCKET, PICTURE TUBE

<DIODE>

D731 8-719-911-19 DIODE ISS119
D732 8-719-911-19 DIODE ISS119
D733 8-719-911-19 DIODE ISS119
D734 8-719-911-19 DIODE ISS119
D735 8-719-911-19 DIODE ISS119

D736 8-719-911-19 DIODE ISS119
D737 8-719-911-19 DIODE ISS119

<COIL>

L731 1-408-429-00 INDUCTOR 470UH
L732 1-249-470-11 CARBON 0.47 5% 1/2W F
L734 1-408-413-00 INDUCTOR 22UH

<NEON LAMP>

NL731 1-519-108-99 LAMP, NEON

<TRANSISTOR>

Q732 8-729-119-78 TRANSISTOR 2SC2785-HFB
Q733 8-729-119-80 TRANSISTOR 2SC2688-LK
Q734 8-729-255-12 TRANSISTOR 2SC2551-0
Q735 8-729-200-17 TRANSISTOR 2SA1091-0
Q736 8-729-200-17 TRANSISTOR 2SA1091-0

<RESISTOR>

R731	1-202-847-00	SOLID	560K	20%	1/2W
R732	1-202-814-11	SOLID	33K	20%	1/2W
R735	1-202-828-11	SOLID	6.8K	20%	1/2W
R736	1-202-561-00	SOLID	330	20%	1/2W
R738	1-249-405-11	CARBON	100	5%	1/4W F

R739 1-249-405-11 CARBON 100 5% 1/4W F
R740 ▲1-215-927-71 METAL OXIDE 47K 5% 3W F

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CG **CB** **DS**

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R741	1-249-405-11	CARBON	100	5%	1/4W	F					
R742	1-249-421-11	CARBON	2.2K	5%	1/4W	F					
R744	1-249-401-11	CARBON	47	5%	1/4W						
R745	1-215-455-00	METAL	27K	1%	1/4W						
R746	1-247-807-31	CARBON	100	5%	1/4W						
R747	1-249-403-11	CARBON	68	5%	1/4W						
R748	1-249-412-11	CARBON	390	5%	1/4W						
R749	1-249-410-11	CARBON	270	5%	1/4W						
R752	1-215-399-00	METAL	120	1%	1/4W						
R754	1-215-409-00	METAL	330	1%	1/4W						
R756	1-215-924-00	METAL OXIDE	15K	5%	3W	F					
R757	1-216-488-11	METAL OXIDE	18K	5%	3W	F					
<SPARK GAP>											
SG732	1-519-422-11	GAP, SPARK									

*A-1331-339-A	CB BOARD, COMPLETE										

4-373-933-01	SHEET (TRANSISTOR), BN										
4-382-854-11	SCREW (M3X10), P, SW (+)										
<RESISTOR>											
R761	1-202-847-00	SOLID									
R762	1-202-814-11	SOLID									
R764	1-202-842-11	SOLID									
R765	1-202-828-11	SOLID									
R766	1-202-561-00	SOLID									
R768	1-249-405-11	CARBON	100	5%	1/4W	F					
R769	1-249-405-11	CARBON	100	5%	1/4W	F					
R770	Δ 1-215-927-71	METAL OXIDE	47K	5%	3W	F					
R771	1-249-405-11	CARBON	100	5%	1/4W	F					
R772	1-249-421-11	CARBON	2.2K	5%	1/4W	F					
R773	1-249-413-11	CARBON	470	5%	1/4W						
R774	1-249-401-11	CARBON	47	5%	1/4W						
R776	1-247-807-31	CARBON	100	5%	1/4W						
R777	1-249-403-11	CARBON	68	5%	1/4W						
R778	1-249-412-11	CARBON	390	5%	1/4W						
R779	1-249-414-11	CARBON	560	5%	1/4W						
R782	1-215-399-00	METAL	120	1%	1/4W						
R784	1-215-409-00	METAL	330	1%	1/4W						
R785	1-215-418-00	METAL	750	1%	1/4W						
R786	1-215-924-00	METAL OXIDE	15K	5%	3W	F					
R787	1-216-488-11	METAL OXIDE	18K	5%	3W	F					
<CONNECTOR>											
CB1	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P									
CB3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P									
CB4	*1-564-511-11	PLUG, CONNECTOR 8P									
CB5	*1-564-511-61	PLUG, CONNECTOR 8P									
CB17	*1-564-508-11	PLUG, CONNECTOR 5P									
<SOCKET>											
CRT761 Δ 1-251-179-11 SOCKET PICTURE TUBE											
<DIODE>											
D761	8-719-911-19	DIODE ISS119									
D762	8-719-911-19	DIODE ISS119									
D763	8-719-911-19	DIODE ISS119									
D764	8-719-911-19	DIODE ISS119									
D765	8-719-911-19	DIODE ISS119									
D766	8-719-911-19	DIODE ISS119									
D768	8-719-911-19	DIODE ISS119									
D769	8-719-109-81	DIODE RD.4.7ESB2									
<COIL>											
L761	1-408-429-00	INDUCTOR	470UH								
L762	1-249-470-11	CARBON	0.47	5%	1/2W	F					
L764	1-408-413-00	INDUCTOR	22UH								
<CAPACITOR>											
C1841	1-126-233-11	ELECT	22MF		20%	25V					
C1842	1-126-233-11	ELECT	22MF		20%	25V					
<CONNECTOR>											
DS6	1-691-182-11	CONNECTOR (BOARD TO BOARD) 12P									
<DIODE>											
D1841	8-719-911-19	DIODE ISS119									
D1842	8-719-911-19	DIODE ISS119									
D1843	8-719-911-19	DIODE ISS119									
D1844	8-719-911-19	DIODE ISS119									
<IC>											
IC1801 8-759-183-37 IC CA0007AD											

DS | D



The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
D1707	8-719-911-19	DIODE ISS119		Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE			
D1708	8-719-911-19	DIODE ISS119		Q908	8-729-900-89	TRANSISTOR DTC144ES			
D1709	8-719-911-19	DIODE ISS119		Q909	8-729-119-78	TRANSISTOR 2SC2785-HFE			
D1710	8-719-911-19	DIODE ISS119		Q910	8-729-119-78	TRANSISTOR 2SC2785-HFE			
D1711	8-719-911-19	DIODE ISS119		Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE			
D1712	8-719-911-19	DIODE ISS119		Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE			
D1713	8-719-911-19	DIODE ISS119		<RESISTOR>					
D1714	8-719-911-19	DIODE ISS119		R901	1-215-463-00	METAL 56K 1% 1/4W			
D1715	8-719-911-19	DIODE ISS119		R902	1-215-463-00	METAL 56K 1% 1/4W			
D1716	8-719-911-19	DIODE ISS119		R903	1-215-449-00	METAL 15K 1% 1/4W			
D1717	8-719-911-19	DIODE ISS119		R904	1-215-455-00	METAL 27K 1% 1/4W			
D1718	8-719-911-19	DIODE ISS119		R905	1-215-449-00	METAL 15K 1% 1/4W			
D1720	8-719-109-50	DIODE RD2.0ESB1		R906	1-215-469-00	METAL 100K 1% 1/4W			
D1721	8-719-109-50	DIODE RD2.0ESB1		R907	1-215-469-00	METAL 100K 1% 1/4W			
D1722	8-719-109-50	DIODE RD2.0ESB1		R908	1-215-469-00	METAL 100K 1% 1/4W			
D1723	8-719-109-50	DIODE RD2.0ESB1		R909	1-215-473-00	METAL 150K 1% 1/4W			
<FUSE>						R910 1-215-437-00 METAL 4.7K 1% 1/4W			
F901	A 1-576-107-22	FUSE 3.15A/250V		R911	1-215-453-00	METAL 22K 1% 1/4W			
	1-533-223-11	CLIP, FUSE; F901		R912	1-215-453-00	METAL 22K 1% 1/4W			
F902	A 1-576-107-22	FUSE 3.15A/250V		R913	1-215-437-00	METAL 4.7K 1% 1/4W			
	1-533-223-11	CLIP, FUSE; F902		R914	1-215-453-00	METAL 22K 1% 1/4W			
				R915	1-215-435-00	METAL 3.9K 1% 1/4W			
<IC>						R916 1-215-457-00 METAL 33K 1% 1/4W			
IC901	8-759-145-58	IC UPC4558C		R919	1-215-399-00	METAL 120 1% 1/4W			
IC902	8-752-033-68	IC CXA1268P		R920	1-215-399-00	METAL 120 1% 1/4W			
IC903	8-759-701-56	IC NJM78M05FA		R921	1-215-399-00	METAL 120 1% 1/4W			
IC904	8-759-701-65	IC NJM79M05FA		R922	1-215-399-00	METAL 120 1% 1/4W			
IC905	8-759-701-89	IC NJM7915FA		R923	1-215-441-00	METAL 6.8K 1% 1/4W			
IC906	8-759-148-84	IC UPC2415HF		R924	1-215-441-00	METAL 6.8K 1% 1/4W			
IC907	8-759-140-53	IC UPD4053BC		R925	1-215-441-00	METAL 6.8K 1% 1/4W			
IC908	8-759-145-58	IC UPC4558C		R926	1-215-463-00	METAL 56K 1% 1/4W			
IC910	8-759-054-40	IC PA0036		R927	1-215-463-00	METAL 56K 1% 1/4W			
IC1701	8-759-602-19	IC M5220L		R928	1-215-461-00	METAL 47K 1% 1/4W			
IC1702	8-759-602-19	IC M5220L		R929	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1703	8-759-602-19	IC M5220L		R930	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1704	8-749-923-16	IC STK4278-L		R931	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1705	8-749-923-16	IC STK4278-L		R932	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1706	8-759-113-13	IC UPC1498H		R933	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1707	8-759-113-13	IC UPC1498II		R934	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1708	8-759-113-13	IC UPC1498H		R935	1-215-439-00	METAL 5.6K 1% 1/4W			
IC1709	8-759-145-58	IC UPC4558C		R936	1-215-439-00	METAL 5.6K 1% 1/4W			
IC1710	8-759-145-58	IC UPC4558C		R937	1-215-439-00	METAL 5.6K 1% 1/4W			
IC1711	8-759-145-58	IC UPC4558C		R938	1-215-417-00	METAL 680 1% 1/4W			
IC1712	8-759-145-58	IC UPC4558C		R939	1-215-433-00	METAL 3.3K 1% 1/4W			
IC1713	8-759-145-58	IC UPC4558C		R940	1-215-429-00	METAL 2.2K 1% 1/4W			
IC1714	8-759-145-58	IC UPC4558C		R941	1-215-441-00	METAL 6.8K 1% 1/4W			
IC1715	8-759-145-58	IC UPC4558C		R942	1-215-451-00	METAL 18K 1% 1/4W			
<CIOL>						R943 1-215-441-00 METAL 6.8K 1% 1/4W			
L901	1-459-313-00	COIL WITH CORE (HWC)		R944	1-215-439-00	METAL 5.6K 1% 1/4W			
L901	1-459-313-00	COIL WITH CORE (HWC)		R945	1-215-445-00	METAL 10K 1% 1/4W			
L902	1-459-313-00	COIL WITH CORE (HWC)		R946	1-215-445-00	METAL 10K 1% 1/4W			
L902	1-459-313-00	COIL WITH CORE (HWC)		R947	1-215-439-00	METAL 5.6K 1% 1/4W			
L903	1-459-313-00	COIL WITH CORE (HWC)		R948	1-215-455-00	METAL 27K 1% 1/4W			
L903	1-459-313-00	COIL WITH CORE (HWC)		R949	1-215-439-00	METAL 5.6K 1% 1/4W			
L903	1-459-313-00	COIL WITH CORE (HWC)		R950	1-215-429-00	METAL 2.2K 1% 1/4W			
L904	1-459-313-00	COIL WITH CORE (HWC)		R951	1-215-429-00	METAL 2.2K 1% 1/4W			
L904	1-459-313-00	COIL WITH CORE (HWC)		R952	1-215-437-00	METAL 4.7K 1% 1/4W			
<TRANSISTOR>						R953 1-215-439-00 METAL 5.6K 1% 1/4W			
Q902	8-729-900-89	TRANSISTOR DTC144ES		R954	1-215-439-00	METAL 5.6K 1% 1/4W			
Q906	8-729-119-78	TRANSISTOR 2SC2785-HFE		R955	1-215-435-00	METAL 3.9K 1% 1/4W			
				R956	1-215-437-00	METAL 4.7K 1% 1/4W			
				R957	1-215-441-00	METAL 6.8K 1% 1/4W			

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R958	1-215-437-00	METAL	4.7K 1% 1/4W	R1726	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F
R959	1-215-439-00	METAL	5.6K 1% 1/4W	R1727	1-214-792-00	METAL	1 1% 1/2W
R960	1-215-439-00	METAL	5.6K 1% 1/4W	R1728	1-214-792-00	METAL	1 1% 1/2W
R961	1-215-439-00	METAL	5.6K 1% 1/4W	R1729	1-214-792-00	METAL	1 1% 1/2W
R962	1-215-441-00	METAL	6.8K 1% 1/4W	R1730	1-247-807-31	CARBON	100 5% 1/4W
R963	1-215-441-00	METAL	6.8K 1% 1/4W	R1731	1-249-417-11	CARBON	1K 5% 1/4W
R964	1-215-441-00	METAL	6.8K 1% 1/4W	R1732	1-247-807-31	CARBON	100 5% 1/4W
R965	▲ 1-215-909-71	METAL OXIDE	47 5% 3W F	R1733	1-247-807-31	CARBON	100 5% 1/4W
R966	1-215-469-00	METAL	100K 1% 1/4W	R1734	1-247-807-31	CARBON	100 5% 1/4W
R967	1-215-421-00	METAL	1K 1% 1/4W	R1735	1-247-807-31	CARBON	100 5% 1/4W
R968	1-215-437-00	METAL	4.7K 1% 1/4W	R1736	1-249-423-11	CARBON	3.3K 5% 1/4W
R969	1-249-421-11	CARBON	2.2K 5% 1/4W	R1737	1-249-423-11	CARBON	3.3K 5% 1/4W
R970	▲ 1-215-909-71	METAL OXIDE	47 5% 3W F	R1738	1-249-423-11	CARBON	3.3K 5% 1/4W
R971	1-249-421-11	CARBON	2.2K 5% 1/4W	R1739	1-249-423-11	CARBON	3.3K 5% 1/4W
R972	1-249-431-11	CARBON	15K 5% 1/4W	R1740	1-249-417-11	CARBON	1K 5% 1/4W
R973	1-249-431-11	CARBON	15K 5% 1/4W	R1741	1-249-423-11	CARBON	3.3K 5% 1/4W
R974	1-215-399-00	METAL	120 1% 1/4W	R1742	1-249-423-11	CARBON	3.3K 5% 1/4W
R975	1-215-399-00	METAL	120 1% 1/4W	R1743	1-249-417-11	CARBON	1K 5% 1/4W
R976	1-215-399-00	METAL	120 1% 1/4W	R1744	1-249-411-11	CARBON	330 5% 1/4W
R977	1-215-399-00	METAL	120 1% 1/4W	R1745	1-247-807-31	CARBON	100 5% 1/4W
R978	1-215-399-00	METAL	120 1% 1/4W	R1746	1-214-792-00	METAL	1 1% 1/2W
R979	1-215-399-00	METAL	120 1% 1/4W	R1747	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F
R980	1-215-399-00	METAL	120 1% 1/4W	R1748	1-215-421-00	METAL	1K 1% 1/4W
R981	1-215-399-00	METAL	120 1% 1/4W	R1749	1-215-421-00	METAL	1K 1% 1/4W
R982	1-249-431-11	CARBON	15K 5% 1/4W	R1750	1-215-421-00	METAL	1K 1% 1/4W
R983	1-249-431-11	CARBON	15K 5% 1/4W	R1751	1-215-421-00	METAL	1K 1% 1/4W
R984	1-214-960-00	METAL	3.9 1% 1/2W	R1752	1-215-421-00	METAL	1K 1% 1/4W
R985	1-214-960-00	METAL	3.9 1% 1/2W	R1753	1-215-421-00	METAL	1K 1% 1/4W
R986	1-214-960-00	METAL	3.9 1% 1/2W	R1754	1-214-792-00	METAL	1 1% 1/2W
R987	1-215-421-00	METAL	1K 1% 1/4W	R1755	1-215-469-00	METAL	100K 1% 1/4W
R988	1-215-421-00	METAL	1K 1% 1/4W	R1756	1-215-443-00	METAL	8.2K 1% 1/4W
R989	1-215-421-00	METAL	1K 1% 1/4W	R1757	1-215-437-00	METAL	4.7K 1% 1/4W
R990	1-215-421-00	METAL	1K 1% 1/4W	R1758	1-215-437-00	METAL	4.7K 1% 1/4W
R991	1-215-421-00	METAL	1K 1% 1/4W	R1759	1-247-807-31	CARBON	100 5% 1/4W
R992	1-215-421-00	METAL	1K 1% 1/4W	R1760	1-249-427-11	CARBON	6.8K 5% 1/4W
R993	1-249-429-11	CARBON	10K 5% 1/4W	R1761	1-249-419-11	CARBON	1.5K 5% 1/4W
R994	1-249-429-11	CARBON	10K 5% 1/4W	R1762	1-215-445-00	METAL	10K 1% 1/4W
R995	1-215-457-00	METAL	33K 1% 1/4W	R1763	1-249-427-11	CARBON	6.8K 5% 1/4W
R999	1-215-455-00	METAL	27K 1% 1/4W	R1764	1-249-419-11	CARBON	1.5K 5% 1/4W
R1701	1-249-411-11	CARBON	330 5% 1/4W	R1765	1-249-419-11	CARBON	1.5K 5% 1/4W
R1702	1-249-427-11	CARBON	6.8K 5% 1/4W	R1766	1-249-427-11	CARBON	6.8K 5% 1/4W
R1703	1-249-427-11	CARBON	6.8K 5% 1/4W	R1767	1-249-427-11	CARBON	6.8K 5% 1/4W
R1704	1-249-411-11	CARBON	330 5% 1/4W	R1768	1-249-439-11	CARBON	68K 5% 1/4W
R1705	1-249-411-11	CARBON	330 5% 1/4W	R1769	1-215-445-00	METAL	10K 1% 1/4W
R1706	1-249-427-11	CARBON	6.8K 5% 1/4W	R1770	1-247-807-31	CARBON	100 5% 1/4W
R1707	1-249-411-11	CARBON	330 5% 1/4W	R1771	1-247-807-31	CARBON	100 5% 1/4W
R1708	1-249-427-11	CARBON	6.8K 5% 1/4W	R1772	1-215-429-00	METAL	2.2K 1% 1/4W
R1709	1-249-427-11	CARBON	6.8K 5% 1/4W	R1773	1-215-429-00	METAL	2.2K 1% 1/4W
R1710	1-249-411-11	CARBON	330 5% 1/4W	R1774	1-215-421-00	METAL	1K 1% 1/4W
R1711	1-249-411-11	CARBON	330 5% 1/4W	R1775	1-249-429-11	CARBON	10K 5% 1/4W
R1712	1-249-427-11	CARBON	6.8K 5% 1/4W	R1776	1-215-421-00	METAL	1K 1% 1/4W
R1713	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F	R1777	1-249-423-11	CARBON	3.3K 5% 1/4W
R1714	1-249-411-11	CARBON	330 5% 1/4W	R1778	1-215-421-00	METAL	1K 1% 1/4W
R1715	1-249-411-11	CARBON	330 5% 1/4W	R1779	▲ 1-215-898-71	METAL OXIDE	10K 5% 2W F
R1716	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F	R1780	1-214-960-00	METAL	3.9 1% 1/2W
R1717	1-249-411-11	CARBON	330 5% 1/4W	R1781	1-214-960-00	METAL	3.9 1% 1/2W
R1718	1-249-417-11	CARBON	1K 5% 1/4W	R1782	▲ 1-215-898-71	METAL OXIDE	10K 5% 2W F
R1719	1-214-792-00	METAL	1 1% 1/2W	R1783	1-214-960-00	METAL	3.9 1% 1/2W
R1720	1-249-411-11	CARBON	330 5% 1/4W	R1784	1-214-960-00	METAL	3.9 1% 1/2W
R1721	1-249-417-11	CARBON	1K 5% 1/4W	R1785	▲ 1-215-898-71	METAL OXIDE	10K 5% 2W F
R1722	1-249-411-11	CARBON	330 5% 1/4W	R1786	1-214-960-00	METAL	3.9 1% 1/2W
R1723	1-249-417-11	CARBON	1K 5% 1/4W	R1787	1-214-960-00	METAL	3.9 1% 1/2W
R1724	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F	R1788	1-249-433-11	CARBON	22K 5% 1/4W
R1725	▲ 1-215-886-71	METAL OXIDE	100 5% 2W F				

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK	
R1789	1-249-441-11	CARBON	100K	5%	1/4W	R1873	1-215-437-00	METAL	4.7K	1%	1/4W
R1790	1-249-433-11	CARBON	22K	5%	1/4W	R1874	1-215-437-00	METAL	4.7K	1%	1/4W
R1791	1-249-429-11	CARBON	10K	5%	1/4W	R1875	1-215-437-00	METAL	4.7K	1%	1/4W
R1792	1-215-445-00	METAL	10K	1%	1/4W	R1876	1-215-437-00	METAL	4.7K	1%	1/4W
R1793	1-247-807-31	CARBON	100	5%	1/4W	R1877	1-215-437-00	METAL	4.7K	1%	1/4W
R1794	1-215-429-00	METAL	2.2K	1%	1/4W	R1878	1-215-475-00	METAL	180K	1%	1/4W
R1795	1-249-433-11	CARBON	22K	5%	1/4W	R1879	1-215-475-00	METAL	180K	1%	1/4W
R1796	1-247-807-31	CARBON	100	5%	1/4W	R1880	1-215-475-00	METAL	180K	1%	1/4W
R1797	1-249-429-11	CARBON	10K	5%	1/4W	R1882	1-215-445-00	METAL	10K	1%	1/4W
R1798	1-249-423-11	CARBON	3.3K	5%	1/4W	R1883	1-215-453-00	METAL	22K	1%	1/4W
R1800	1-247-807-31	CARBON	100	5%	1/4W	R1884	1-215-397-00	METAL	100	1%	1/4W
R1801	1-215-439-00	METAL	5.6K	1%	1/4W	R1885	1-215-445-00	METAL	10K	1%	1/4W
R1802	1-215-439-00	METAL	5.6K	1%	1/4W	R1886	1-215-455-00	METAL	27K	1%	1/4W
R1803	1-215-439-00	METAL	5.6K	1%	1/4W	R1887	1-215-397-00	METAL	100	1%	1/4W
R1805	1-215-439-00	METAL	5.6K	1%	1/4W	R1889	1-215-457-00	METAL	33K	1%	1/4W
R1806	1-247-807-31	CARBON	100	5%	1/4W	R1890	1-215-449-00	METAL	15K	1%	1/4W
R1807	1-247-807-31	CARBON	100	5%	1/4W	R1892	1-215-445-00	METAL	10K	1%	1/4W
R1808	1-214-792-00	METAL	1	1%	1/2W	R1894	1-215-429-00	METAL	2.2K	1%	1/4W
R1809	1-214-792-00	METAL	1	1%	1/2W	R1895	1-215-445-00	METAL	10K	1%	1/4W
R1810	1-214-792-00	METAL	1	1%	1/2W	R1896	1-215-445-00	METAL	10K	1%	1/4W
R1811	1-214-792-00	METAL	1	1%	1/2W	R1897	1-215-445-00	METAL	10K	1%	1/4W
R1812	1-214-792-00	METAL	1	1%	1/2W	R1898	1-215-445-00	METAL	10K	1%	1/4W
R1813	1-214-792-00	METAL	1	1%	1/2W	R1899	1-215-421-00	METAL	1K	1%	1/4W
R1814	1-249-431-11	CARBON	15K	5%	1/4W	R1900	1-215-429-00	METAL	2.2K	1%	1/4W
R1815	1-247-885-00	CARBON	180K	5%	1/4W	R1901	1-215-449-00	METAL	15K	1%	1/4W
R1816	1-249-431-11	CARBON	15K	5%	1/4W	R1902	1-215-445-00	METAL	10K	1%	1/4W
R1817	1-247-885-00	CARBON	180K	5%	1/4W	R1903	1-215-445-00	METAL	10K	1%	1/4W
R1818	1-247-807-31	CARBON	100	5%	1/4W	R1904	1-215-445-00	METAL	10K	1%	1/4W
R1819	1-215-437-00	METAL	4.7K	1%	1/4W	R1905	1-215-445-00	METAL	10K	1%	1/4W
R1820	1-215-437-00	METAL	4.7K	1%	1/4W	R1906	1-215-429-00	METAL	2.2K	1%	1/4W
R1821	1-215-437-00	METAL	4.7K	1%	1/4W	R1907	1-215-445-00	METAL	10K	1%	1/4W
R1822	1-215-445-00	METAL	10K	1%	1/4W	R1908	1-215-445-00	METAL	10K	1%	1/4W
R1823	1-215-445-00	METAL	10K	1%	1/4W	R1909	1-215-445-00	METAL	10K	1%	1/4W
R1824	1-215-433-00	METAL	3.3K	1%	1/4W	R1910	1-215-445-00	METAL	10K	1%	1/4W
R1825	1-215-433-00	METAL	3.3K	1%	1/4W	R1911	1-215-453-00	METAL	22K	1%	1/4W
R1826	1-215-433-00	METAL	3.3K	1%	1/4W	R1916	1-215-423-00	METAL	1.2K	1%	1/4W
R1827	1-215-445-00	METAL	10K	1%	1/4W	R1920	1-215-453-00	METAL	22K	1%	1/4W
R1828	1-215-445-00	METAL	10K	1%	1/4W	R1921	1-215-445-00	METAL	10K	1%	1/4W
R1829	1-249-434-11	CARBON	27K	5%	1/4W	R1922	1-215-445-00	METAL	10K	1%	1/4W
R1830	1-249-434-11	CARBON	27K	5%	1/4W	R1924	1-215-429-00	METAL	2.2K	1%	1/4W
R1831	1-247-807-31	CARBON	100	5%	1/4W	R1925	1-215-429-00	METAL	2.2K	1%	1/4W
R1832	1-215-471-00	METAL	120K	1%	1/4W	R1926	1-215-429-00	METAL	2.2K	1%	1/4W
R1833	1-215-471-00	METAL	120K	1%	1/4W	R1927	1-215-445-00	METAL	10K	1%	1/4W
R1834	1-215-471-00	METAL	120K	1%	1/4W	R1928	1-215-421-00	METAL	1K	1%	1/4W
R1835	1-215-437-00	METAL	4.7K	1%	1/4W	R1929	1-215-445-00	METAL	10K	1%	1/4W
R1836	1-215-437-00	METAL	4.7K	1%	1/4W	R1930	1-215-397-00	METAL	100	1%	1/4W
R1837	1-215-421-00	METAL	1K	1%	1/4W	R1931	1-215-397-00	METAL	100	1%	1/4W
R1838	1-249-431-11	CARBON	15K	5%	1/4W	R1932	1-215-453-00	METAL	22K	1%	1/4W
R1839	1-249-431-11	CARBON	15K	5%	1/4W	R1933	1-215-453-00	METAL	22K	1%	1/4W
R1858	1-215-445-00	METAL	10K	1%	1/4W	R1934	1-215-429-00	METAL	2.2K	1%	1/4W
R1859	1-215-445-00	METAL	10K	1%	1/4W	R1935	1-247-881-00	CARBON	120K	5%	1/4W
R1860	1-215-397-00	METAL	100	1%	1/4W	R1937	1-215-445-00	METAL	10K	1%	1/4W
R1861	1-215-453-00	METAL	22K	1%	1/4W						
R1862	1-215-453-00	METAL	22K	1%	1/4W						
R1863	1-215-397-00	METAL	100	1%	1/4W						
R1864	1-215-437-00	METAL	4.7K	1%	1/4W						
R1865	1-215-453-00	METAL	22K	1%	1/4W						
R1866	1-215-453-00	METAL	22K	1%	1/4W						
R1867	1-215-437-00	METAL	4.7K	1%	1/4W						
R1868	1-215-469-00	METAL	100K	1%	1/4W						
R1869	1-215-445-00	METAL	10K	1%	1/4W						
R1870	1-215-445-00	METAL	10K	1%	1/4W						
R1871	1-215-445-00	METAL	10K	1%	1/4W						
R1872	1-215-437-00	METAL	4.7K	1%	1/4W						

<VARIABLE RESISTOR>

D H

H U T V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
S1607	1-571-731-11	SWITCH, TACTIL		*A-1373-463-A	V BOARD, COMPLETE	*****	

	*A-1373-461-A	UT BOARD, COPMPLTE	*****				

<CAPACITOR>							
C1154	1-164-096-11	CERAMIC	0.01MF	C1551	1-124-122-11	ELECT	100MF 20% 50V
C1158	1-126-233-11	ELECT	22MF	C1552	1-124-122-11	ELECT	100MF 20% 50V
C1160	1-126-233-11	ELECT	22MF	C1553	1-102-824-00	CERAMIC	470PF 5% 50V
C1161	1-126-233-11	ELECT	22MF	C1554	1-102-824-00	CERAMIC	470PF 5% 50V
C1165	1-124-903-11	ELECT	1MF	C1555	1-130-483-00	MYLAR	0.01MF 5% 50V
C1166	1-124-903-11	ELECT	1MF	C1556	1-130-483-00	MYLAR	0.01MF 5% 50V
C1167	1-124-903-11	ELECT	1MF	C1557	1-102-824-00	CERAMIC	470PF 5% 50V
C1168	1-124-903-11	ELECT	1MF	C1558	1-102-824-00	CERAMIC	470PF 5% 50V
				C1559	1-102-824-00	CERAMIC	470PF 5% 50V
				C1560	1-102-824-00	CERAMIC	470PF 5% 50V
<CONNECTOR>							
UT22	*1-565-928-11	CONNECTOR (TUB) 30P					
UT23	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P					
UT35	*1-564-518-11	PLUG, CONNECTOR 3P					
<DIODE>							
D1160	8-719-110-36	DIODE	RD13ESB2	IC1551	8-759-145-58	IC UPC4558C	
D1163	8-719-110-36	DIODE	RD13ESB2	IC1552	8-759-912-77	IC LM324N	
D1164	8-719-110-36	DIODE	RD13ESB2				
D1165	8-719-110-36	DIODE	RD13ESB2				
D1166	8-719-110-36	DIODE	RD13ESB2				
D1167	8-719-110-36	DIODE	RD13ESB2				
D1168	8-719-110-36	DIODE	RD13ESB2				
D1169	8-719-110-36	DIODE	RD13ESB2				
D1170	8-719-110-36	DIODE	RD13ESB2				
<JACK>							
J1003	1-573-970-11	BLOCK, (S) TERMINAL					
J1004	1-764-890-11	TERMINAL BLOCK, S 3P					
J1008	1-573-969-11	JACK BLOCK, PIN					
<RESISTOR>							
R1164	1-247-895-00	CARBON	470K 5% 1/4W	R1540	1-215-445-00	METAL	10K 1% 1/4W
R1165	1-247-895-00	CARBON	470K 5% 1/4W	R1541	1-215-445-00	METAL	10K 1% 1/4W
R1174	1-247-895-00	CARBON	470K 5% 1/4W	R1542	1-215-445-00	METAL	10K 1% 1/4W
R1175	1-247-895-00	CARBON	470K 5% 1/4W	R1551	1-215-445-00	METAL	10K 1% 1/4W
R1176	1-247-804-11	CARBON	75 5% 1/4W	R1552	1-215-423-00	METAL	1.2K 1% 1/4W
R1178	1-247-895-00	CARBON	470K 5% 1/4W	R1553	1-249-417-11	CARBON	1K 5% 1/4W
R1179	1-247-895-00	CARBON	470K 5% 1/4W	R1554	1-215-445-00	METAL	10K 1% 1/4W
R1180	1-247-804-11	CARBON	75 5% 1/4W	R1555	1-215-375-00	METAL	12 1% 1/4W
R1181	1-247-804-11	CARBON	75 5% 1/4W	R1556	1-215-375-00	METAL	12 1% 1/4W
R1188	1-247-804-11	CARBON	75 5% 1/4W	R1557	1-215-375-00	METAL	12 1% 1/4W
R1191	1-249-425-11	CARBON	4.7K 5% 1/4W	R1558	1-215-445-00	METAL	10K 1% 1/4W
R1192	1-249-425-11	CARBON	4.7K 5% 1/4W	R1559	1-215-445-00	METAL	10K 1% 1/4W
R1193	1-249-425-11	CARBON	4.7K 5% 1/4W	R1560	1-215-445-00	METAL	10K 1% 1/4W
R1194	1-249-425-11	CARBON	4.7K 5% 1/4W	R1561	1-215-423-00	METAL	1.2K 1% 1/4W
R1196	1-249-429-11	CARBON	10K 5% 1/4W	R1562	1-215-423-00	METAL	1.2K 1% 1/4W
<SWITCH>							
S1150	1-571-731-11	SWITCH, TACTIL		R1563	1-215-445-00	METAL	10K 1% 1/4W

				R1564	1-249-417-11	CARBON	1K 5% 1/4W
				R1565	1-215-445-00	METAL	10K 1% 1/4W
				R1566	1-215-375-00	METAL	12 1% 1/4W
				R1567	1-215-375-00	METAL	12 1% 1/4W
				R1568	1-215-375-00	METAL	12 1% 1/4W
				R1569	1-215-445-00	METAL	10K 1% 1/4W
				R1570	1-215-445-00	METAL	10K 1% 1/4W
				R1571	1-249-417-11	CARBON	1K 5% 1/4W
				R1572	1-215-445-00	METAL	10K 1% 1/4W

V ZR ZG ZB N

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1573	1-215-375-00	METAL	12	1%	1/4W	C805	1-102-030-00	CERAMIC	330PF	10%	500V
R1574	1-215-375-00	METAL	12	1%	1/4W	C806	1-130-495-00	MYLAR	0.1MF	5%	50V
R1575	1-215-375-00	METAL	12	1%	1/4W	C807	1-124-667-11	ELECT	10MF	20%	50V
R1576	1-215-445-00	METAL	10K	1%	1/4W	C808	1-126-183-11	ELECT	1000MF	20%	16V
R1577	1-215-445-00	METAL	10K	1%	1/4W	C809	1-124-903-11	ELECT	1MF	20%	50V
R1578	1-249-417-11	CARBON	1K	5%	1/4W	C810	1-124-903-11	ELECT	1MF	20%	50V
R1579	1-249-417-11	CARBON	1K	5%	1/4W	C811	1-124-902-00	ELECT	0.47MF	20%	50V
R1580	1-249-417-11	CARBON	1K	5%	1/4W	C812	1-102-973-00	CERAMIC	100PF	5%	50V
R1581	1-249-432-11	CARBON	18K	5%	1/4W	C813	1-102-244-00	CERAMIC	220PF	10%	500V
R1582	1-249-432-11	CARBON	18K	5%	1/4W	C814	1-106-391-12	MYLAR	0.1MF	10%	200V

*A-1390-412-A ZR BOARD, COMPLETE						C815	1-106-367-00	MYLAR	0.01MF	10%	200V
*****						C816	1-124-907-11	ELECT	10MF	20%	50V
<CONNECTOR>											
ZR1	*1-564-522-11	PLUG, CONNECTOR 7P	C817	1-124-119-00	ELECT	330MF	20%	16V			
ZR2	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	C818	1-102-824-00	CERAMIC	470PF	5%	50V			
<RESISTOR>											
R1903	1-249-414-11	CARBON	560	5%	1/4W	C819	1-124-907-11	ELECT	10MF	20%	50V
R1904	1-249-414-11	CARBON	560	5%	1/4W	C820	1-124-907-11	ELECT	10MF	20%	50V

*A-1390-413-A ZG BOARD, COMPLETE						C821	1-124-907-11	ELECT	10MF	20%	50V
*****						C822	1-104-792-51	ELECT	33MF	20%	16V
<CONNECTOR>											
ZG2	1-564-523-11	PLUG, CONNECTOR 8P	C823	1-124-907-11	ELECT	10MF	20%	50V			
ZG19	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	C824	1-104-792-51	ELECT	33MF	20%	16V			
<RESISTOR>											
R1913	1-249-414-11	CARBON	560	5%	1/4W	C825	1-124-907-11	ELECT	10MF	20%	50V
R1914	1-249-414-11	CARBON	560	5%	1/4W	C826	1-124-907-11	ELECT	10MF	20%	50V

*A-1390-414-A ZB BOARD, COMPLETE						C827	1-124-907-11	ELECT	10MF	20%	50V
*****						C828	1-124-907-11	ELECT	10MF	20%	50V
<CONNECTOR>											
ZB3	1-564-524-11	PLUG, CONNECTOR 9P	C829	1-104-792-51	ELECT	33MF	20%	16V			
ZB20	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	C830	1-124-907-11	ELECT	10MF	20%	50V			
<RESISTOR>											
R1923	1-249-414-11	CARBON	560	5%	1/4W	C831	1-106-220-00	MYLAR	0.1MF	10%	100V
R1924	1-249-414-11	CARBON	560	5%	1/4W	C832	1-124-907-11	ELECT	10MF	20%	50V

*A-1390-415-A N BOARD, COMPLETE						C833	1-124-916-11	ELECT	22MF	20%	50V
*****						C834	1-130-487-00	MYLAR	0.022MF	5%	50V
<CONNECTOR>											
4-382-854-11	SCREW (M3X10), P, SW (+)	C835	1-124-927-11	ELECT	4.7MF	20%	50V				
<CAPACITOR>											
C801	1-123-024-21	ELECT	33MF	5%	160V	C836	1-130-475-00	MYLAR	0.0022MF	5%	50V
C803	1-136-729-11	FILM	1.5MF	400V	200V	C837	1-136-169-00	FILM	0.22MF	5%	50V
C804	1-106-383-00	MYLAR	0.047MF			C838	1-130-475-00	MYLAR	0.0022MF	5%	50V
<CONNECTOR>											
N1	1-506-348-99	PIN, CONNECTOR 3P	C839	1-102-106-00	CERAMIC	100PF	10%	50V			
N2	*1-564-508-11	PLUG, CONNECTOR 5P	C840	1-136-807-11	FILM	0.018MF	3%	1.6KV			
N3	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	C842	1-130-471-00	MYLAR	0.001MF	5%	50V			
N4	*1-564-507-11	PLUG, CONNECTOR 4P	C850	1-136-169-00	FILM	0.22MF	5%	50V			
N5	*1-564-508-11	PLUG, CONNECTOR 5P	C851	1-124-907-11	ELECT	10MF	20%	50V			
N6	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	C852	1-124-907-11	ELECT	10MF	20%	50V			
N7	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	C853	1-106-220-00	MYLAR	0.1MF	10%	100V			
N8	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	C854	1-104-793-51	ELECT	470MF	20%	50V			
N9	1-506-348-99	PIN, CONNECTOR 3P	C855	1-126-804-11	ELECT	100MF	20%	50V			
N10	*1-564-511-11	PLUG, CONNECTOR 8P	C856	1-162-114-00	CERAMIC	0.0047MF	2KV				
N11	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	C858	1-124-119-00	ELECT	330MF	20%	16V			
N12	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	C888	1-124-903-11	ELECT	1MF	20%	50V			
<CONNECTOR>											
N13	1-506-126-00	PLUG, CONNECTOR (2.5MM) 6P	N20	1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P						
N14	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	N21	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P						
N15	1-506-371-00	PIN, CONNECTOR 2P	N30	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P						
N16	*1-506-371-00	PIN, CONNECTOR 2P	N851	*1-506-371-00	PIN, CONNECTOR 2P						
N17	*1-506-371-00	PIN, CONNECTOR 2P	N853	*1-506-371-00	PIN, CONNECTOR 2P						

N

The components identified by shading and mark **▲** are critical for safety
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sont critiques pour la sécurité
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>							
D801	8-719-928-08	DIODE ERD28-08S		R801	▲ 1-216-378-71	METAL OXIDE	5.6 5% 2W R
D802	8-719-302-43	DIODE EL1Z		R802	▲ 1-247-799-91	CARBON	47 5% 1/4W
D803	8-719-109-85	DIODE RD5.1ESB2		R803	▲ 1-215-869-71	METAL OXIDE	1K 5% 1W R
D804	8-719-911-19	DIODE ISS119		R804	1-249-429-11	CARBON	10K 5% 1/4W
D805	8-719-911-19	DIODE ISS119		R805	1-249-423-11	CARBON	3.3K 5% 1/4W
D806	8-719-109-85	DIODE RD5.1ESB2		R806	1-249-425-11	CARBON	4.7K 5% 1/4W
D807	8-719-109-85	DIODE RD5.1ESB2		R807	1-249-441-11	CARBON	100K 5% 1/4W
D808	8-719-911-19	DIODE ISS119		R808	1-249-417-11	CARBON	1K 5% 1/4W
D809	8-719-911-19	DIODE ISS119		R809	1-249-417-11	CARBON	1K 5% 1/4W
D810	8-719-911-19	DIODE ISS119		R810	1-249-441-11	CARBON	100K 5% 1/4W
D811	8-719-109-85	DIODE RD5.1ESB2		R811	1-249-421-11	CARBON	2.2K 5% 1/4W
D812	8-719-911-19	DIODE ISS119		R812	1-249-420-11	CARBON	1.8K 5% 1/4W R
D813	8-719-911-19	DIODE ISS119		R813	▲ 1-215-921-71	METAL OXIDE	1.7K 5% 3W R
D814	8-719-911-19	DIODE ISS119		R814	1-249-409-11	CARBON	220 5% 1/4W
D815	8-719-110-36	DIODE RD13ESB2		R815	1-249-415-11	CARBON	680 5% 1/4W
D820	8-719-911-19	DIODE ISS119		R816	1-214-777-00	METAL	100K 1% 1/4W
D850	8-719-109-71	DIODE RD3.9ESB1		R817	1-215-471-00	METAL	120K 1% 1/4W
D851	▲ 8-719-903-09	DIODE V30N		R818	1-215-471-00	METAL	120K 1% 1/4W
D852	8-719-911-19	DIODE ISS119		R819	1-215-450-00	METAL	16K 1% 1/4W
D853	▲ 8-719-903-09	DIODE V30N		R820	1-215-451-00	METAL	18K 1% 1/4W
D891	8-719-110-49	DIODE RD18ESB2		R821	1-249-423-11	CARBON	3.3K 5% 1/4W
D892	8-719-110-49	DIODE RD18ESB2		R822	1-249-433-11	CARBON	22K 5% 1/4W
<IC>							
IC801	8-759-231-58	IC TA7812S		R823	1-249-429-11	CARBON	10K 5% 1/4W
IC802	8-759-103-93	IC UPC393C		R824	1-215-469-00	METAL	100K 1% 1/4W
IC803	8-759-503-91	IC TL082ACP		R825	1-215-453-00	METAL	22K 1% 1/4W
IC804	8-759-103-93	IC UPC393C		R826	1-214-962-00	METAL	820K 1% 1/4W
IC805	8-759-100-75	IC UPC1394C		R827	1-214-764-00	METAL	30K 1% 1/4W
<COIL>							
L802	1-409-570-11	COIL, CHOKE 1.2MMH		R828	1-215-455-00	METAL	27K 1% 1/4W
L803	1-459-313-00	COIL WITH CORE (HWC)		R829	1-215-455-00	METAL	27K 1% 1/4W
L803	1-459-313-00	COIL WITH CORE (HWC)		R830	▲ 1-215-928-71	METAL OXIDE	68K 5% 3W R
L804	1-410-482-31	INDUCTOR 100UH		R831	▲ 1-215-928-71	METAL OXIDE	68K 5% 3W R
L805	▲ 1-424-603-11	COIL, CHOKE 1.05MMH		R832	1-249-417-11	CARBON	1K 5% 1/4W
<NEON LAMP>							
NL801	1-519-108-99	LAMP, NEON		R833	1-249-419-11	CARBON	1.5K 5% 1/4W
<TRANSISTOR>							
Q801	▲ 8-729-201-61	TRANSISTOR 2SC2555-1		R834	1-249-419-11	CARBON	1.5K 5% 1/4W
Q802	8-729-119-80	TRANSISTOR 2SC2688-LK		R835	1-215-429-00	METAL	2.2K 1% 1/4W
Q803	8-729-119-76	TRANSISTOR 2SA1175-HFE		R836	1-215-435-00	METAL	3.9K 1% 1/4W
Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE		R837	1-249-433-11	CARBON	22K 5% 1/4W
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE		R838	1-249-435-11	CARBON	33K 5% 1/4W
Q806	8-729-119-80	TRANSISTOR 2SC2688-LK		R839	1-249-438-11	CARBON	56K 5% 1/4W
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE		R840	1-249-434-11	CARBON	27K 5% 1/4W
Q808	8-729-119-78	TRANSISTOR 2SC2785-HFE		R841	1-249-429-11	CARBON	10K 5% 1/4W
Q811	▲ 8-729-016-32	TRANSISTOR 2SC4927-01		R842	1-249-435-11	CARBON	33K 5% 1/4W
Q820	8-729-119-76	TRANSISTOR 2SA1175-HFE		R843	1-249-423-11	CARBON	3.3K 5% 1/4W
Q851	8-729-119-78	TRANSISTOR 2SC2785-HFE		R844	1-249-433-11	CARBON	22K 5% 1/4W
Q852	8-729-119-78	TRANSISTOR 2SC2785-HFE		R845	1-249-435-11	CARBON	33K 5% 1/4W
Q853	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R846	1-249-429-11	CARBON	10K 5% 1/4W
<RESISTOR>							
R847	1-214-761-00	METAL	22K 1% 1/4W	R847	1-249-429-11	CARBON	10K 5% 1/4W
R848	1-215-429-00	METAL	2.2K 1% 1/4W	R848	1-215-421-00	METAL	1K 1% 1/4W
R849	1-215-421-00	METAL	2.2K 1% 1/4W	R849	1-215-429-00	METAL	2.2K 1% 1/4W
R851	1-215-404-00	METAL	200 1% 1/4W	R851	1-215-404-00	METAL	200 1% 1/4W
R852	▲ 1-215-469-00	METAL	100K 1% 1/4W	R852	▲ 1-215-469-00	METAL	100K 1% 1/4W
R853	1-215-469-00	METAL	100K 1% 1/4W	R853	1-215-469-00	METAL	100K 1% 1/4W
R854	1-249-430-11	CARBON	12K 5% 1/4W	R854	1-249-430-11	CARBON	12K 5% 1/4W
R855	1-215-469-00	METAL	100K 1% 1/4W	R855	1-215-469-00	METAL	100K 1% 1/4W
R856	1-249-430-11	CARBON	12K 5% 1/4W	R856	1-249-430-11	CARBON	12K 5% 1/4W
R857	1-249-433-11	CARBON	22K 5% 1/4W	R857	1-249-433-11	CARBON	22K 5% 1/4W
R858	1-249-413-11	CARBON	470 5% 1/4W	R858	1-249-413-11	CARBON	470 5% 1/4W
R859	1-249-435-11	CARBON	33K 5% 1/4W	R859	1-249-435-11	CARBON	33K 5% 1/4W
R860	1-249-441-11	CARBON	100K 5% 1/4W	R860	1-249-441-11	CARBON	100K 5% 1/4W
R861	1-249-421-11	CARBON	2.2K 5% 1/4W	R861	1-249-421-11	CARBON	2.2K 5% 1/4W
R862	1-249-434-11	CARBON	27K 5% 1/4W	R862	1-249-434-11	CARBON	27K 5% 1/4W
R863	1-249-431-11	CARBON	15K 5% 1/4W	R863	1-249-431-11	CARBON	15K 5% 1/4W
R864	1-249-428-11	CARBON	8.2K 5% 1/4W	R864	1-249-428-11	CARBON	8.2K 5% 1/4W

- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

N U

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

U S

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R1061	1-249-409-11	CARBON	220 5% 1/4W			<IC>		
R1062	1-249-441-11	CARBON	100K 5% 1/4W					
R1063	1-249-409-11	CARBON	220 5% 1/4W					
R1066	1-215-437-00	METAL	4.7K 1% 1/4W					
R1067	1-215-437-00	METAL	4.7K 1% 1/4W					
R1068	1-215-437-00	METAL	4.7K 1% 1/4W					
R1069	1-215-437-00	METAL	4.7K 1% 1/4W					
R1070	1-249-411-11	CARBON	330 5% 1/4W					
R1071	1-249-431-11	CARBON	15K 5% 1/4W					
R1073	1-249-431-11	CARBON	15K 5% 1/4W					
R1077	1-249-418-11	CARBON	1.2K 5% 1/4W					
R1078	1-249-418-11	CARBON	1.2K 5% 1/4W					
R1079	1-247-807-31	CARBON	100 5% 1/4W					
R1080	1-215-423-00	METAL	1.2K 1% 1/4W					
R1081	1-215-421-00	METAL	1K 1% 1/4W					
R1089	1-247-807-31	CARBON	100 5% 1/4W					
R1094	1-247-807-31	CARBON	100 5% 1/4W					
R1096	1-247-807-31	CARBON	100 5% 1/4W					
R1099	1-249-413-11	CARBON	470 5% 1/4W					
R1110	1-247-807-31	CARBON	100 5% 1/4W					
R1118	1-249-413-11	CARBON	470 5% 1/4W					
R1133	1-247-807-31	CARBON	100 5% 1/4W					
R1134	1-247-807-31	CARBON	100 5% 1/4W					
R1137	1-249-411-11	CARBON	330 5% 1/4W					
R1147	1-247-807-31	CARBON	100 5% 1/4W					
R1148	1-247-807-31	CARBON	100 5% 1/4W					
R1149	1-249-417-11	CARBON	1K 5% 1/4W					
R1150	1-247-807-31	CARBON	100 5% 1/4W					
R1151	1-247-807-31	CARBON	100 5% 1/4W					
R1152	1-249-417-11	CARBON	1K 5% 1/4W					

*A-1394-535-A S BOARD, COMPLETE				*****				

*4-033-528-01 CASE (UPPER LID), SHIELD, P4				*****				
<CAPACITOR>								
C3403	1-164-161-11	CERAMIC CHIP	0.0022MF 10%	50V	R3432	1-216-049-00	METAL GLAZE	1K 5% 1/10W
C3408	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V	R3433	1-216-073-00	METAL GLAZE	10K 5% 1/10W
C3409	1-124-477-11	ELECT	47MF 20%	16V	R3434	1-216-073-00	METAL GLAZE	10K 5% 1/10W
C3411	1-104-792-51	ELECT	33MF 20%	16V	R3435	1-216-073-00	METAL GLAZE	10K 5% 1/10W
C3474	1-163-038-00	CERAMIC CHIP	0.1MF 25V		R3436	1-216-295-00	METAL GLAZE	0 5% 1/10W
C3475	1-126-157-11	ELECT	10MF 20%	16V	R3437	1-216-085-00	METAL GLAZE	33K 5% 1/10W
C3476	1-136-165-00	FILM	0.1MF 5%	50V	R3438	1-216-025-00	METAL GLAZE	100 5% 1/10W
C3477	1-163-135-00	CERAMIC CHIP	560PF 5%	50V	R3439	1-216-041-00	METAL GLAZE	470 5% 1/10W
C3478	1-163-038-00	CERAMIC CHIP	0.1MF 25V		R3440	1-216-041-00	METAL GLAZE	470 5% 1/10W
C3479	1-137-367-11	FILM	0.0033MF 5%	50V	R3441	1-216-091-00	METAL GLAZE	56K 5% 1/10W
C3480	1-136-495-11	FILM	0.068MF 5%	50V	R3442	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
C3481	1-126-157-11	ELECT	10MF 20%	16V	R3451	1-216-041-00	METAL GLAZE	470 5% 1/10W
C3482	1-163-121-00	CERAMIC CHIP	150PF 5%	50V	R3458	1-216-295-00	METAL GLAZE	0 5% 1/10W
C3483	1-126-157-11	ELECT	10MF 20%	16V	R3474	1-216-295-00	METAL GLAZE	0 5% 1/10W
C3484	1-163-038-00	CERAMIC CHIP	0.1MF 25V		R3476	1-216-295-00	METAL GLAZE	0 5% 1/10W
<CONNECTOR>								
S47	*1-564-506-11	PLUG, CONNECTOR	3P					
S46	*1-564-506-11	PLUG, CONNECTOR	3P					
S43	*1-564-508-11	PLUG, CONNECTOR	5P					
S45	*1-564-511-11	PLUG, CONNECTOR	8P					
<CRYSTAL>								
X3401	1-577-358-21	VIBRATOR, CERAMIC						

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The components identified by shading and mark **▲** are critical for safety
Replace only with part number specified.

REF. NO. PART NO.	DESCRIPTION	REMARK
MISCELLANEOUS		

▲ 1-241-744-11	RESISTOR ASSY (HIGH-VOLTAGE)	
▲ 1-453-108-11	DC BLOCK, HIGH-VOLTAGE	
1-504-533-11	SPEAKER (16CM)	
*1-555-400-00	CABLE, PIN	
1-561-306-00	JACK, PIN (F)	
▲ 1-696-002-12	CORD, POWER(WITH NOISE FILTER) 7.0A/125V	
▲ 8-451-441-11	DEFLECTION YOKE Y829PA	
V901 ▲ 8-736-072-05	PICTURE TUBE 07MAB2(G)	
V901 ▲ 8-736-073-05	PICTURE TUBE 07MAB2(B)	
V901 ▲ 8-736-074-05	PICTURE TUBE 07MAB2(R)	

ACCESSORIES AND PACKING MATERIALS		

3-754-297-21	INSTRUCTION	
3-754-298-21	MANUAL, INSTRUCTION	
3-754-298-31	MANUAL, INSTRUCTION (KP-46S55(CND)/53S55(CND))	
3-754-298-41	MANUAL, INSTRUCTION (KP-46S55(U)/53S55(U))	
*4-030-895-01	JOINT	
*4-037-126-01	INDIVIDUAL CARTON (KP-46S55)	
*4-037-127-01	TRAY (KP-46S55)	
*4-037-128-01	CUSHION (UPPER) (ASSY) (KP-46S55)	
*4-037-129-01	CUSHION (LOWER) (ASSY) (KP-46S55)	
*4-037-165-01	INDIVIDUAL CARTON (KP-53S55)	
*4-037-166-01	TRAY (KP-53S55)	
*4-037-167-01	CUSHION (UPPER) (ASSY) (KP-53S55)	
*4-037-168-01	CUSHION (LOWER) (ASSY) (KP-53S55)	
*4-037-328-01	PLATE, TOP (KP-53S55)	
*4-037-674-01	PLATE, TOP (KP-46S55)	
*4-037-918-01	PLATE, BOTTOM (KP-46S55)	
*4-038-043-03	PLATE, BOTTOM (KP-53S55)	
*4-041-423-01	SHEET, PROTECTION (KP-46S55)	
*4-041-425-01	BAG, PROTECTION (KP-46S55)	
*4-041-426-01	BAG, PROTECTION (KP-53S55)	
*4-042-309-01	PALLET, CUSHION (KP-46S55)	
*4-042-463-01	SHEET, PROTECTION (KP-53S55)	
REMOTE COMMANDER		
1-467-653-11	REMOTE COMMANDER (RM-Y125)	
9-903-826-01	COVER, BATTERY (FOR RM-Y125)	